TOSHIBA

SERVICE MANUAL

LCD Color Television

32C3030D

Ver. 1.02

This model is classified as a green product (*1), as indicated by the underlined serial number. This Service Manual describes replacement parts for the green product. When repairing this green product, use the part(s) described in this manual and lead-free solder (*2).
For (*1) and (*2), refer to **GREEN PRODUCT PROCUREMENT** and **LEAD-FREE SOLDER**.

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SAFETY INSTRUCTION

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

Safety Precaution

WARNING: SERVICING SHOULD NOT BE ATTEMPTED BY ANYONE UNFAMILIAR WITH THE NECESSARY PRECAUTIONS ON THIS RECEIVER. THE FOLLOWING ARE THE NECESSARY PRECAUTIONS TO BE OBSERVED BEFORE SERVICING THIS CHASSIS.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.

2. Always disconnect the power plug before any disassembling of the product. It may result in electrical shock.

3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network, etc.

4. Always keep tools, components of the product, etc away from the children, These items may cause injury to children.

5. Depending on the model, use an isolation transformer or wear suitable gloves when servicing with the power on, and disconnect the power plug to avoid electrical shock when replacing parts. In some cases, alternating current is also impressed in the chassis, so electrical shock is possible if the chassis is contacted with the power on.

6. Always use the replacement parts specified for the particular model when making repairs. The parts used in products require special safety characteristics such as

inflammability, voltage resistance, etc. therefore, use only replacement parts that have these same characteristics. Use only the specified parts when the ⚠ mark is indicated in the circuit diagram or parts list.

7. Parts mounting and routing dressing of wirings should be the same as that used originally. For safety purposes, insulating materials such as isolation tube or tape are sometimes used and printed circuit boards are sometimes mounted floating. Also make sure that wirings is routed and clamped to avoid parts that generate heat and which use high voltage. Always follow the manufactured wiring routes / dressings.

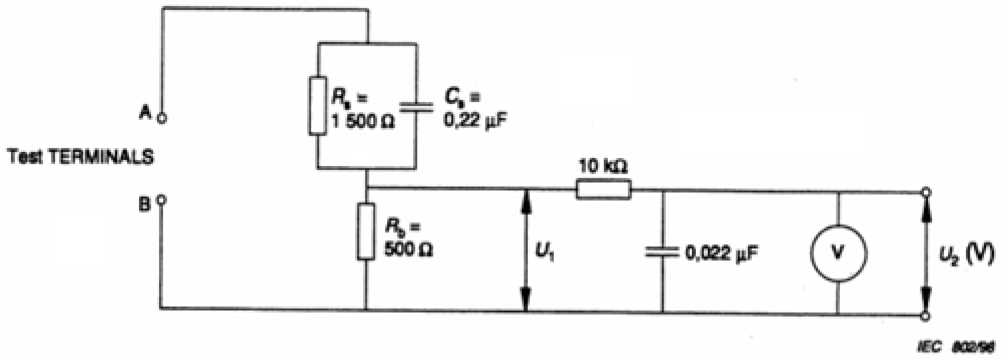
8. Always ensure that all internal wirings are in accordance before re-assembling the external casing after a repairing completed. Do not allow internal wiring to be pinched by cabinets, panels, etc. Any error in reassembly or wiring can result in electrical leakage, flame, etc., and may be hazardous.

9. NEVER remodel the product in any way. Remodeling can result in improper operation, malfunction, or electrical leakage and flame, which may be hazardous.

10. Touch current check. (After completing the work, measure touch current to prevent an electric shock.)
    - Plug the AC cord directly into the AC outlet. Do NOT use an isolation transformer for this check.
    - Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe.

Annex D
(normative)

Measuring network for TOUCH CURRENTS



Resistance values in orms (Ω).

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance : ≥ 1 MΩ
Input capacitance : ≤ 200 pF
Frequency range : 15 Hz to 1 MHz and d.c. respectively

Note: Appropriate measures should be taken to obtain the correct value in case of non sinusoidal waveforms.

The measuring instrument is calibrated by comparing the frequency factor of U_2 with the solid line in figure F.2 of IEC 60990 at various frequencies. A calibration curve is constructed showing the deviation of U_2 from the ideal curve as a function of frequency.

TOUCH CURRENT = U_2/500 (peak value).

- The potential at any point (TOUCH CURRENT) expressed as voltage U_1 and U_2 does not exceed the following value:

The part or contact of a TERMINAL is not HAZARDOUS LIVE if:

a) The open-circuit voltage should not exceed 35 V (peak) a.c. or 60 V d.c. or, if a) is not met.
b) The measurement of the TOUCH CURRENT shall be carried out in accordance with IEC 60990, with the measuring network described in **Annex D** of this standard.

The TOUCH CURRENT expressed as voltages U_1 and U_2, does not exceed the following values:
- for a.c. : U_1 = 35 V (peak) and U_2 = 0.35 V (peak);
- for d.c. : U_1 = 1.0 V

Note: The limit values of U_2 = 0.35 V (peak) for a.c. and U_1 = 1.0 V for d.c. correspond to the values 0.7 mA (peak) a.c. and 2.0 mA d.c.

Product Safety Notice

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create electrical shock, fire, or other hazards.

SAFETY INSTRUCTION

Handling the LCD Module

Safety Precaution

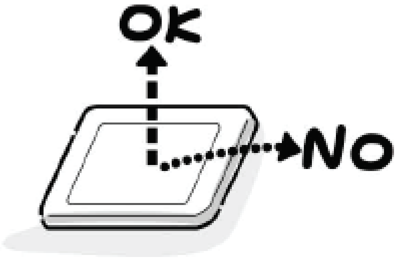
In the event that the screen is damaged or the liquid crystal (fluid) leaks, do not breathe in or drink this fluid.
Also, never touch this fluid. Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact the skin or clothing, wipe off with alcohol, etc., and rinse thoroughly with water. If the fluid should enter the eyes, immediately rinse the eyes thoroughly with running water.

Precautions for Handling the LCD Module

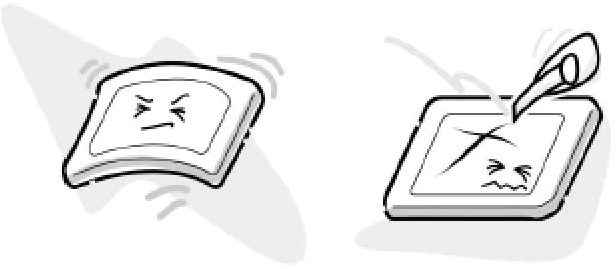
CAUTION: The metal edges of the LCD module are sharp, handle it with care.

The LCD module can easily be damaged during disassembly or reassembly; therefore, always observe the following precautions when handling the module.

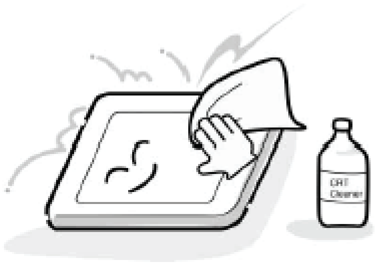
1. When attaching the LCD module to the LCD cover, position it appropriately and fasten at the position where the display can be viewed most conveniently.



2. Carefully align the holes at all four corners of the LCD module with the corresponding holes in the LCD cover and fasten with screws. Do not strongly push on the module because any impact can adversely affect the performance. Also use caution when handling the polarized screen because it can easily be damaged.



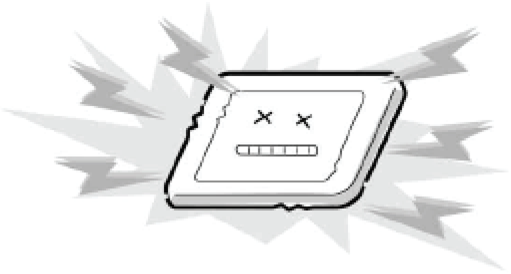
3. If the panel surface becomes soiled, wipe with cotton or a soft cloth. If this does not remove the soiling, breathe on the surface and then wipe again.
   If the panel surface is extremely solied, use a CRT cleaner as a cleaner. Wipe off the panel surface by drop the cleaner on the cloth. Do not drop the cleaner on the panel. Pay attention not to scratch the panel surface.



4. Leaving water or other fluids on the panel screen for an extended period of time can result in discoloration or stripes. Immediately remove any type of fluid from the screen.

5. Glass is used in the panel, so do not drop or strike with hard objects. Such actions can damage the panel.

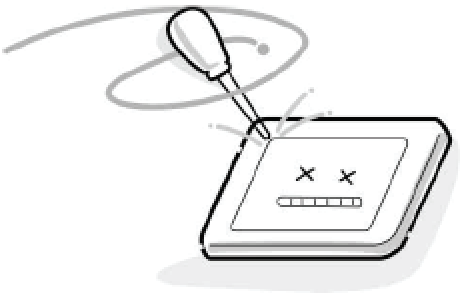
6. CMOS-LSI circuitry is used in the LCD module, so avoid damage due to static electricity. When handling the module, use a wrist ground or anchor ground.



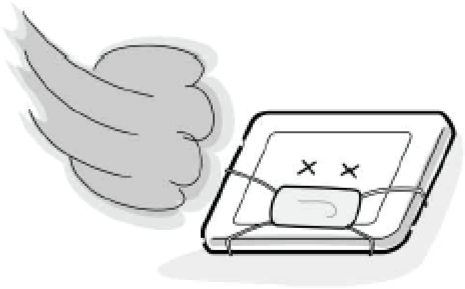
7. Do not expose the LCD module to direct sunlight or strong ultraviolet rays for an extended period of time.

8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.

9. Do not disassemble the LCD module. Such actions could result in improper operation.



10. When transporting the LCD module, do not use packing containing epoxy resin (amine) or silicon resin (alcohol or oxim). The gas generated by these materials can cause loss of polarity.

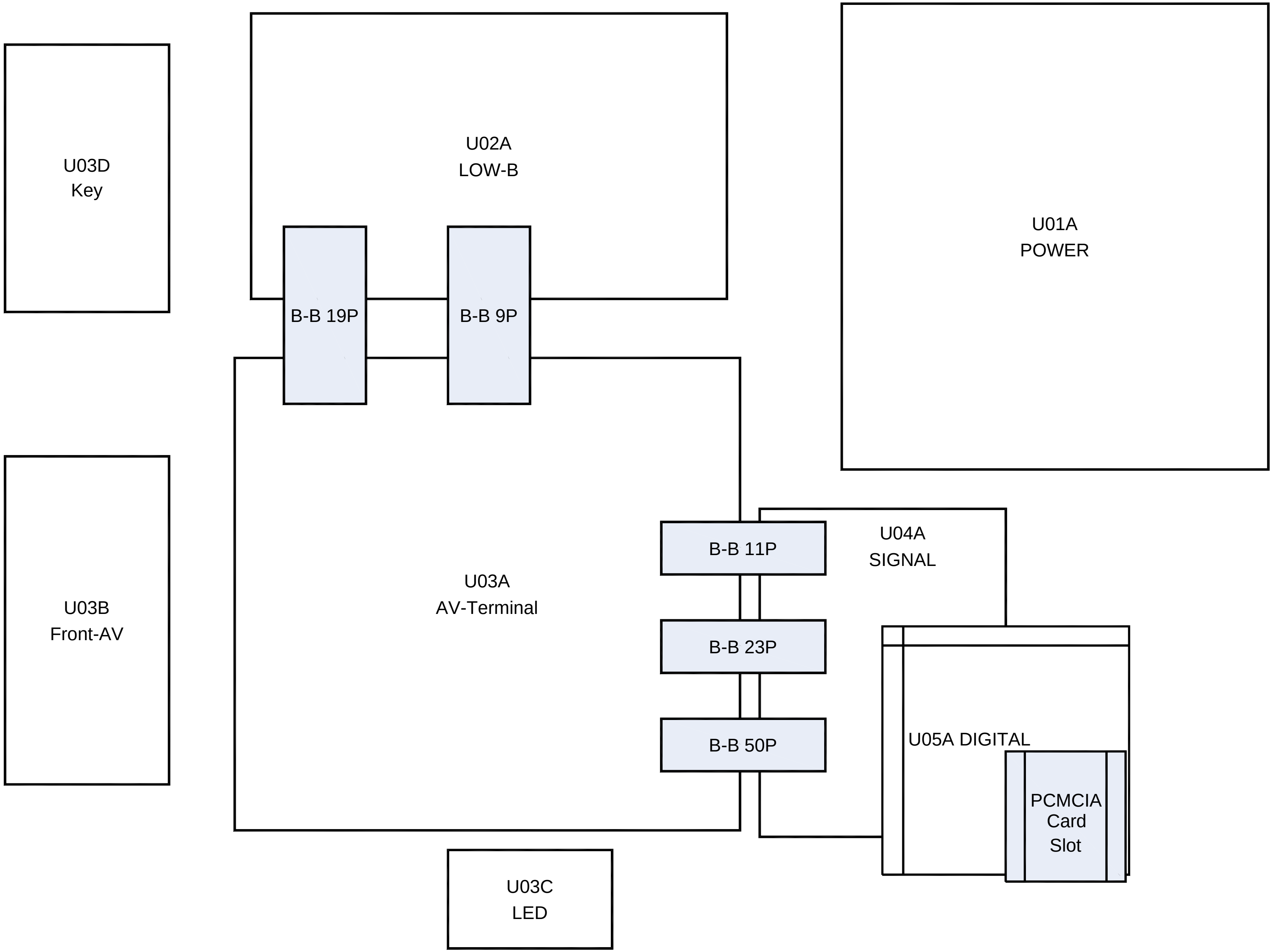


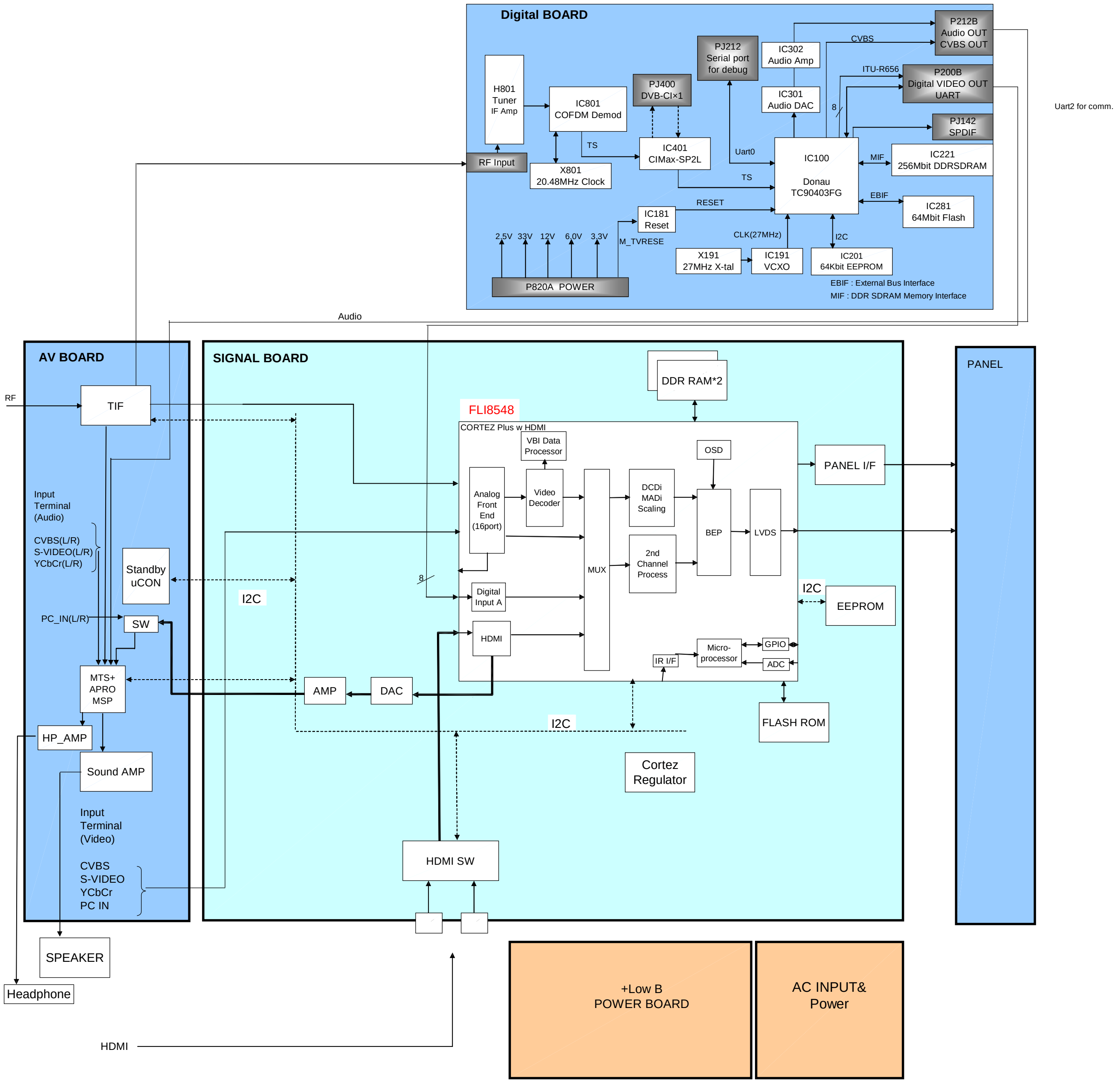
LEAD-FREE SOLDER

This product is manufactured using lead-free solder as a part of a movement within the consumer products industry at large to be environmentally responsible. Lead-free solder must be used in the servicing and repair of this product.

WARNING: This product is manufactured using lead free solder.
DO NOT USE LEAD BASED SOLDER TO REPAIR THIS PRODUCT!

The melting temperature of lead-free solder is higher than that of leaded solder by 86ºF to 104ºF (30ºC to 40ºC). Use of a soldering iron designed for lead-based solders to repair product made with lead-free solder may result in damage to the component and or PCB being soldered. Great care should be made to ensure high-quality soldering when servicing this product especially when soldering large components, through-hole pins, and on PCBs as the level of heat required to melt lead-free solder is high.


U03D
Key
U02A
LOW-B
U01A
POWER
B-B 19P
B-B 9P
U03B
Front-AV
U03A
AV-Terminal
B-B 11P
B-B 23P
B-B 50P
U04A
SIGNAL
U05A DIGITAL
PCMCIA
Card
Slot
U03C
LED


Digital BOARD
H801
Tuner
IF Amp
IC801
COFDM Demod
PJ400
DVB-CI×1
PJ212
Serial port
for debug
IC302
Audio Amp
IC301
Audio DAC
P212B
Audio OUT
CVBS OUT
CVBS
ITU-R656
P200B
Digital VIDEO OUT
UART
8
PJ142
SPDIF
Uart2 for comm.
RF Input
X801
20.48MHz Clock
TS
IC401
CIMax-SP2L
Uart0
TS
IC100
Donau
TC90403FG
MIF
IC221
256Mbit DDRSDRAM
EBIF
IC281
64Mbit Flash
RESET
IC181
Reset
2.5V
33V
12V
6.0V
3.3V
M_TVRESE
CLK(27MHz)
I2C
X191
27MHz X-tal
IC191
VCXO
IC201
64Kbit EEPROM
EBIF : External Bus Interface
MIF : DDR SDRAM Memory Interface
P820A POWER
Audio
AV BOARD
RF
TIF
Input
Terminal
(Audio)
CVBS(L/R)
S-VIDEO(L/R)
YCbCr(L/R)
Standby
uCON
PC_IN(L/R)
SW
MTS+
APRO
MSP
HP_AMP
Sound AMP
Input
Terminal
(Video)
CVBS
S-VIDEO
YCbCr
PC IN
SPEAKER
Headphone
HDMI
SIGNAL BOARD
DDR RAM*2
FLI8548
CORTEZ Plus w HDMI
VBI Data
Processor
OSD
Analog
Front
End
(16port)
Video
Decoder
MUX
DCDi
MADi
Scaling
BEP
LVDS
2nd
Channel
Process
8
Digital
Input A
HDMI
Micro-
processor
GPIO
ADC
IR I/F
I2C
I2C
I2C
PANEL I/F
EEPROM
FLASH ROM
AMP
DAC
Cortez
Regulator
HDMI SW
PANEL
+Low B
POWER BOARD
AC INPUT&
Power

SCHEMATIC DIAGRAM

Precaution

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" FOR DIRECT VIEW CTV ONLY, "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and
should be replaced only with types identical to those in the original circuit or specified in the parts list.

The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SAFETY PRECAUTION and PRODUCT SAFETY NOTICE.

Do not degrade the safety of the receiver through improper servicing.

Note:

1. RESISTOR
   Resistance is shown in ohm [K=1,000, M=1,000,000]. All resistors are 1/6 W and 5 % tolerance carbon resistor, unless otherwise noted as the following marks.

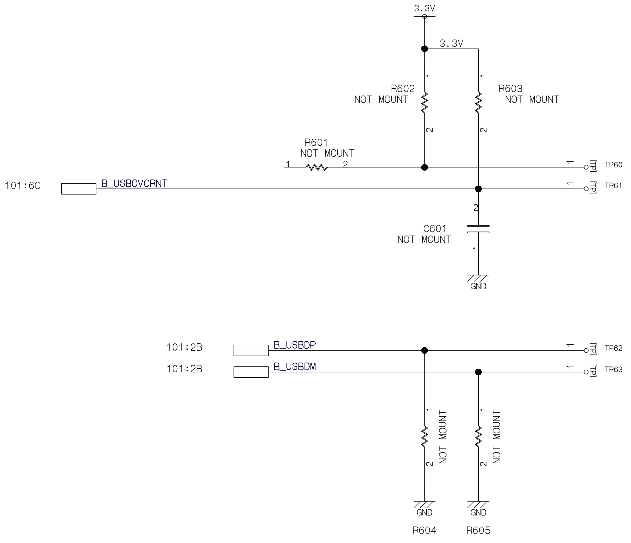
   1/2R : Metal or Metal oxide of 1/2 watt
   1/2S : Carbon composition of 1/2 watt
   1RF : Fuse resistor of 1 watt
   10 W : Cement of 10 watt
   K : ±10 %
   G : ±2 %
   F : ±1 %

2. CAPACITOR
   Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in µF, and the values more than 1 in pF.

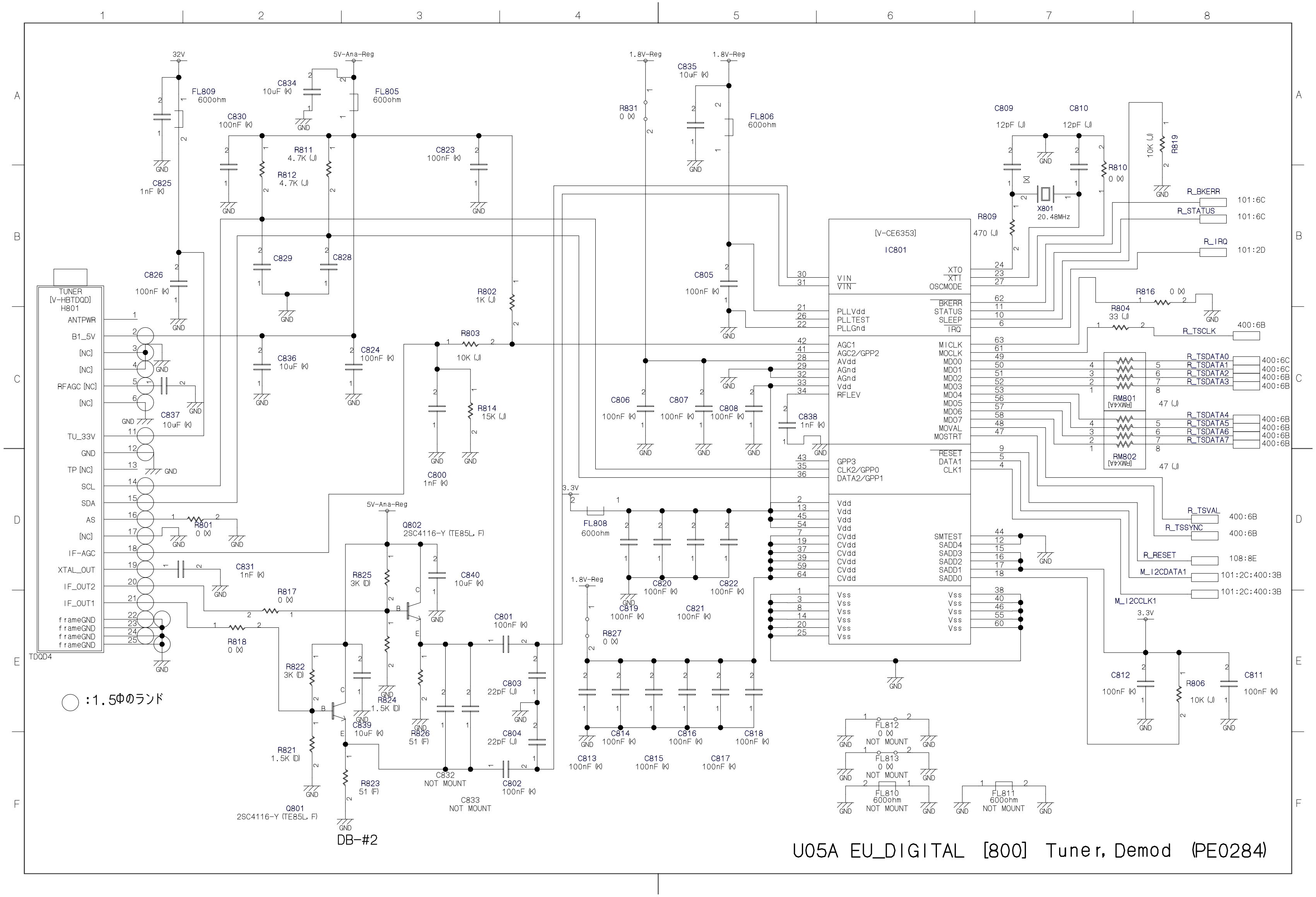
All capacitors are ceramic 50 V, unless otherwise noted as the following marks.

+⊣⊢ = Electrolytic capacitor
Ⓜ⊣⊢ = Mylar capacitor

3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassis ground, using a color bar signal with all controls at normal, line voltage at nominal AC volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20 % except H.V.

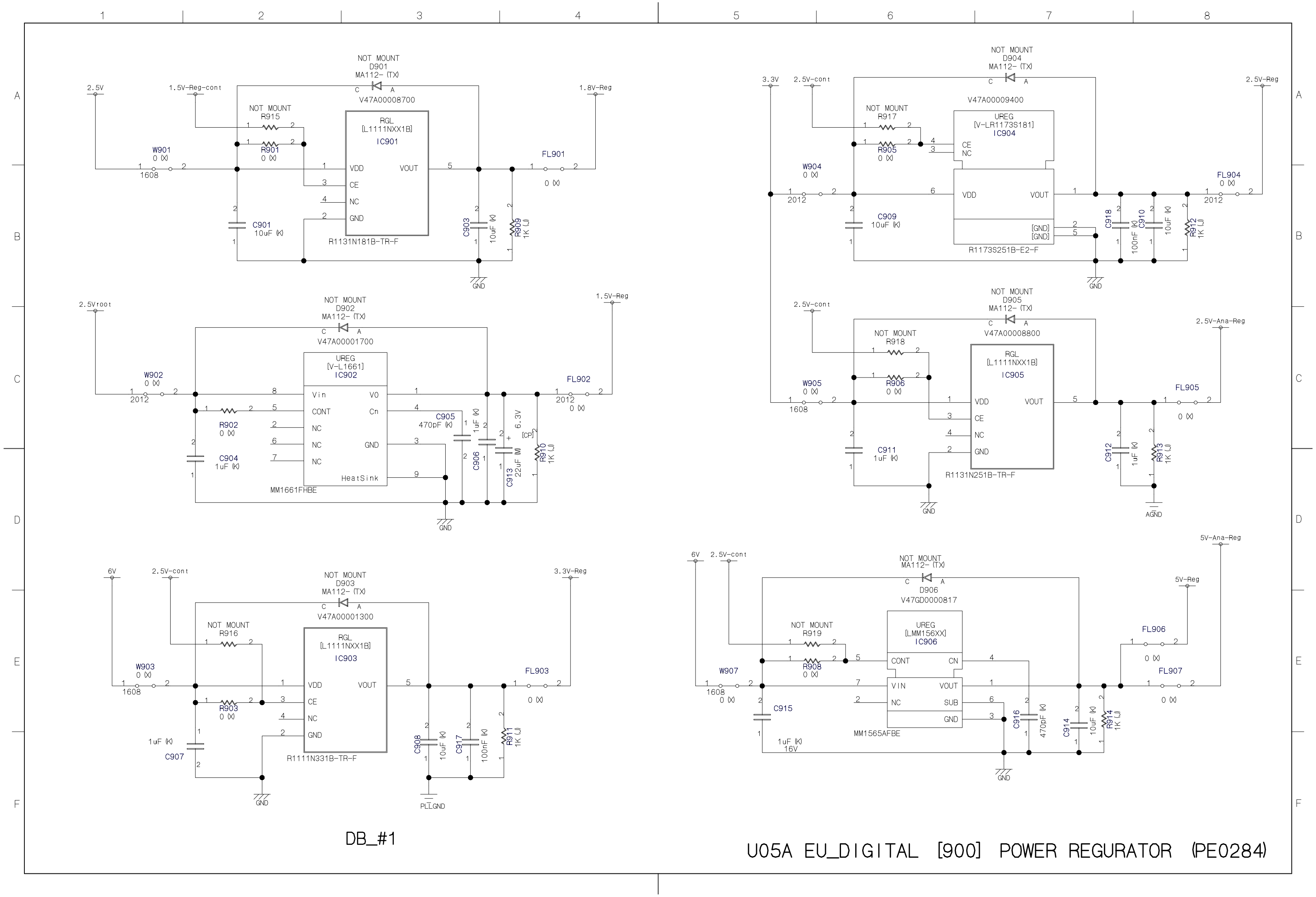

3.3V
3.3V
R602
NOT MOUNT
R603
NOT MOUNT
R601
NOT MOUNT
1
2
TP60
TP61
101:6C
B_USBOVCRNT
C601
NOT MOUNT
GND
101:2B
B_USBDP
101:2B
B_USBDM
TP62
TP63
NOT MOUNT
NOT MOUNT
GND
GND
R604
R605

U05A EU_DIGITAL [600] USB (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
32V
5V-Ana-Reg
1.8V-Reg
3.3V
FL809
600ohm
C825
1nF (K)
C834
10uF (K)
FL805
600ohm
C830
100nF (K)
R811
4.7K (J)
R812
4.7K (J)
C823
100nF (K)
R831
0 (X)
C835
10uF (K)
FL806
600ohm
C809
12pF (J)
C810
12pF (J)
R810
0 (X)
R819
10K (J)
X801
20.48MHz
R809
470 (J)
C829
C828
C826
100nF (K)
C805
100nF (K)
R802
1K (J)
R803
10K (J)
R814
15K (J)
C800
1nF (K)
C836
10uF (K)
C824
100nF (K)
C837
10uF (K)
TUNER
[V-HBTDQD]
H801
ANTPWR
B1_5V
[NC]
RFAGC [NC]
TU_33V
GND
TP [NC]
SCL
SDA
AS
IF-AGC
XTAL_OUT
IF_OUT2
IF_OUT1
frameGND
TDQD4
R801
0 (X)
C831
1nF (K)
R817
0 (X)
R818
0 (X)
Q802
2SC4116-Y (TE85L, F)
R825
3K (D)
C840
10uF (K)
C801
100nF (K)
C803
22pF (J)
C804
22pF (J)
C802
100nF (K)
C832
NOT MOUNT
C833
NOT MOUNT
R822
3K (D)
R824
1.5K (D)
C839
10uF (K)
R826
51 (F)
R821
1.5K (D)
R823
51 (F)
Q801
2SC4116-Y (TE85L, F)
DB-#2
C806
100nF (K)
C807
100nF (K)
C808
100nF (K)
C838
1nF (K)
FL808
600ohm
C819
100nF (K)
C820
100nF (K)
C821
100nF (K)
C822
100nF (K)
R827
0 (X)
C813
100nF (K)
C814
100nF (K)
C815
100nF (K)
C816
100nF (K)
C817
100nF (K)
C818
100nF (K)
[V-CE6353]
IC801
VIN
VIN
PLLVdd
PLLTEST
PLLGnd
AGC1
AGC2/GPP2
AVdd
AGnd
AGnd
Vdd
RFLEV
GPP3
CLK2/GPP0
DATA2/GPP1
Vdd
CVdd
Vss
XTO
XTI
OSCMODE
BKERR
STATUS
SLEEP
IRQ
MICLK
MOCLK
MDO0
MDO1
MDO2
MDO3
MDO4
MDO5
MDO6
MDO7
MOVAL
MOSTRT
RESET
DATA1
CLK1
SMTEST
SADD4
SADD3
SADD2
SADD1
SADD0
R816
0 (X)
R804
33 (J)
RM801
[RMX4A]
47 (J)
RM802
[RMX4A]
47 (J)
R_BKERR
R_STATUS
R_IRQ
R_TSCLK
R_TSDATA0
R_TSDATA1
R_TSDATA2
R_TSDATA3
R_TSDATA4
R_TSDATA5
R_TSDATA6
R_TSDATA7
R_TSVAL
R_TSSYNC
R_RESET
M_I2CDATA1
M_I2CCLK1
101:6C
101:2D
400:6B
400:6C
108:8E
101:2C:400:3B
C812
100nF (K)
R806
10K (J)
C811
100nF (K)
FL812
0 (X)
NOT MOUNT
FL813
0 (X)
NOT MOUNT
FL810
600ohm
NOT MOUNT
FL811
600ohm
NOT MOUNT
GND

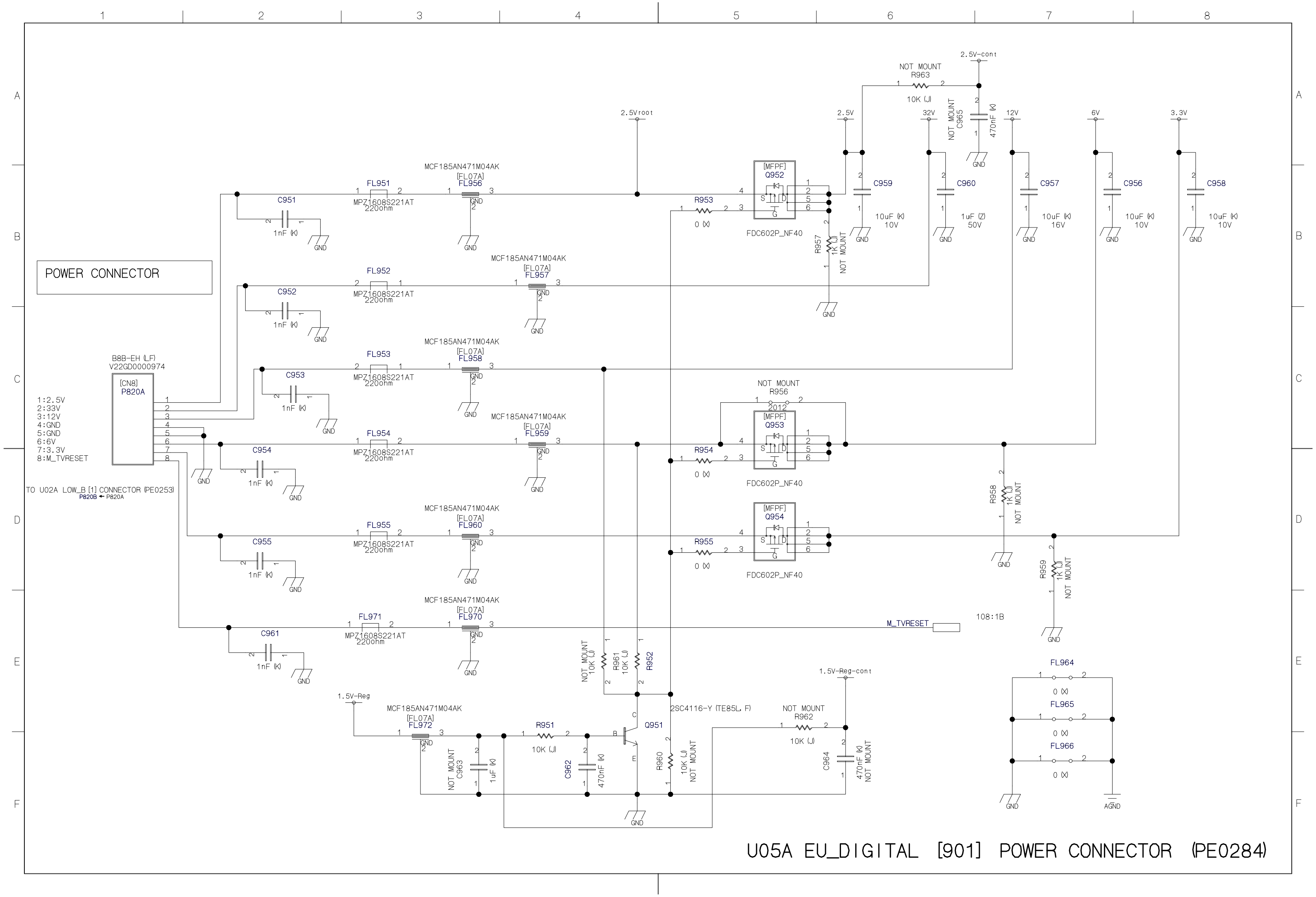
○ :1.5Φのランド

U05A EU_DIGITAL [800] Tuner, Demod (PE0284)

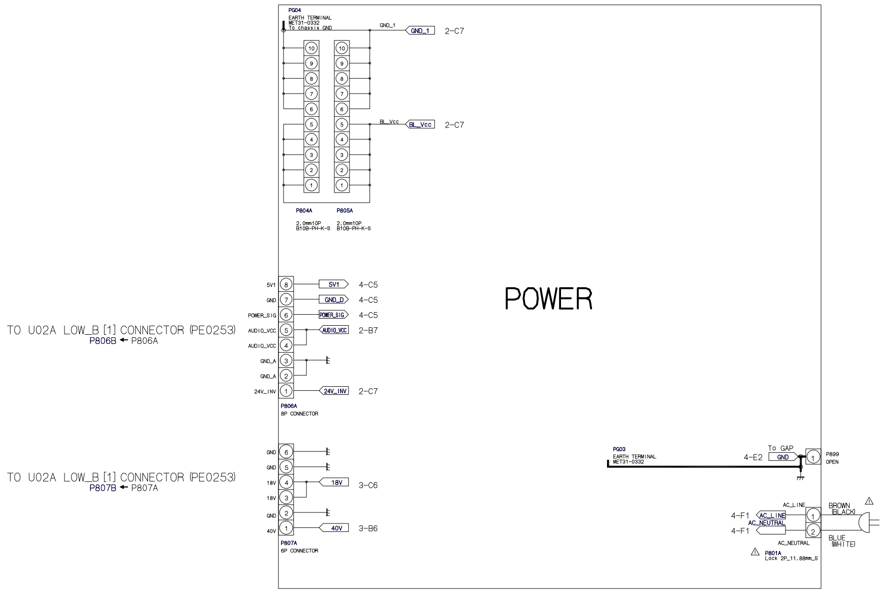

1
2
3
4
5
6
7
8
A
B
C
D
E
F
2.5V
1.5V-Reg-cont
1.8V-Reg
NOT MOUNT
D901
MA112- (TX)
V47A00008700
NOT MOUNT
R915
R901
0 (X)
RGL
[L1111NXX1B]
IC901
VDD
CE
NC
GND
VOUT
W901
0 (X)
1608
FL901
0 (X)
C901
10uF (K)
C903
10uF (K)
R909
1K (J)
R1131N181B-TR-F
GND
2.5Vroot
1.5V-Reg
NOT MOUNT
D902
MA112- (TX)
V47A00001700
UREG
[V-L1661]
IC902
Vin
CONT
NC
HeatSink
VO
Cn
GND
W902
0 (X)
2012
R902
0 (X)
C904
1uF (K)
C905
470pF (K)
C906
1uF (K)
C913
22uF (M)
6.3V
[CP]
R910
1K (J)
FL902
2012
0 (X)
MM1661FHBE
GND
6V
2.5V-cont
3.3V-Reg
NOT MOUNT
D903
MA112- (TX)
V47A00001300
NOT MOUNT
R916
R903
0 (X)
RGL
[L1111NXX1B]
IC903
VDD
CE
NC
GND
VOUT
W903
0 (X)
1608
C907
1uF (K)
C908
10uF (K)
C917
100nF (K)
R911
1K (J)
FL903
0 (X)
R1111N331B-TR-F
GND
PLLGND
3.3V
2.5V-cont
2.5V-Reg
NOT MOUNT
D904
MA112- (TX)
V47A00009400
NOT MOUNT
R917
R905
0 (X)
UREG
[V-LR1173S181]
IC904
CE
NC
VDD
VOUT
[GND]
[GND]
W904
0 (X)
2012
C909
10uF (K)
C918
100nF (K)
C910
10uF (K)
R912
1K (J)
FL904
0 (X)
2012
R1173S251B-E2-F
GND
2.5V-cont
2.5V-Ana-Reg
NOT MOUNT
D905
MA112- (TX)
V47A00008800
NOT MOUNT
R918
R906
0 (X)
RGL
[L1111NXX1B]
IC905
VDD
CE
NC
GND
VOUT
W905
0 (X)
1608
C911
1uF (K)
C912
1uF (K)
R913
1K (J)
FL905
0 (X)
R1131N251B-TR-F
GND
AGND
6V
2.5V-cont
5V-Ana-Reg
5V-Reg
NOT MOUNT
MA112- (TX)
D906
V47GD0000817
UREG
[LMM156XX]
IC906
CONT
CN
VIN
VOUT
NC
SUB
GND
NOT MOUNT
R919
R908
0 (X)
W907
1608
0 (X)
C915
1uF (K)
16V
C916
470pF (K)
C914
10uF (K)
R914
1K (J)
FL906
0 (X)
FL907
0 (X)
MM1565AFBE
GND

DB_#1

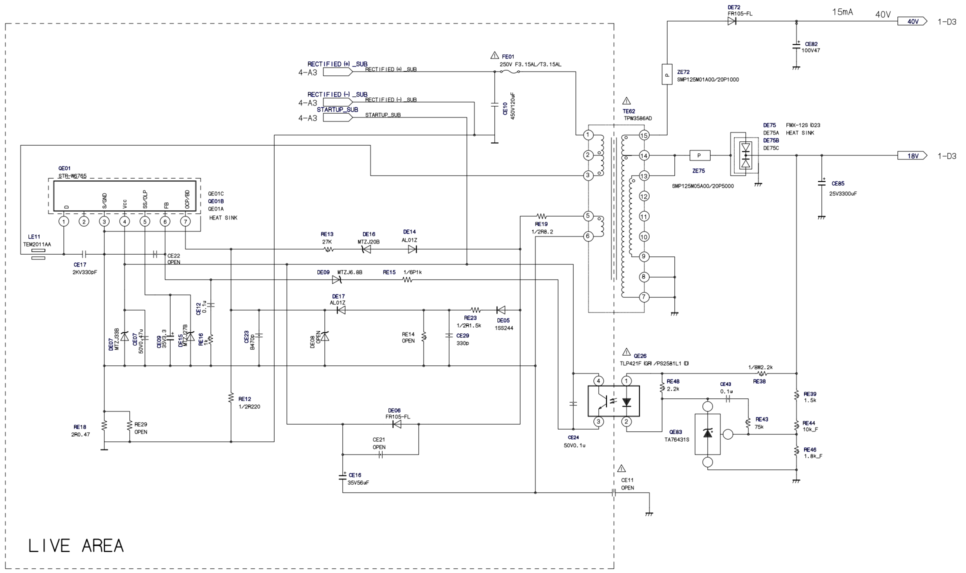
U05A EU_DIGITAL [900] POWER REGURATOR (PE0284)


POWER CONNECTOR
B8B-EH (LF)
V22GD0000974
[CN8]
P820A
1:2.5V
2:33V
3:12V
4:GND
5:GND
6:6V
7:3.3V
8:M_TVRESET
TO U02A LOW_B [1] CONNECTOR (PE0253)
P820B ← P820A
C951
1nF (K)
FL951
MPZ1608S221AT
220ohm
MCF185AN471M04AK
[FL07A]
FL956
GND
C952
FL952
FL957
C953
FL953
FL958
C954
FL954
FL959
C955
FL955
FL960
C961
FL971
FL970
M_TVRESET
108:1B
2.5Vroot
R953
0 (X)
[MFPF]
Q952
FDC602P_NF40
R957
1K (J)
NOT MOUNT
2.5V
32V
12V
6V
3.3V
2.5V-cont
NOT MOUNT
R963
10K (J)
C965
470nF (K)
C959
10uF (K)
10V
C960
1uF (Z)
50V
C957
10uF (K)
16V
C956
C958
NOT MOUNT
R956
2012
Q953
R954
Q954
R955
R958
R959
R961
10K (J)
R952
1.5V-Reg
FL972
C963
1uF (K)
R951
C962
470nF (K)
Q951
2SC4116-Y (TE85L, F)
R960
1.5V-Reg-cont
R962
C964
FL964
FL965
FL966
0 (X)
AGND

U05A EU_DIGITAL [901] POWER CONNECTOR (PE0284)

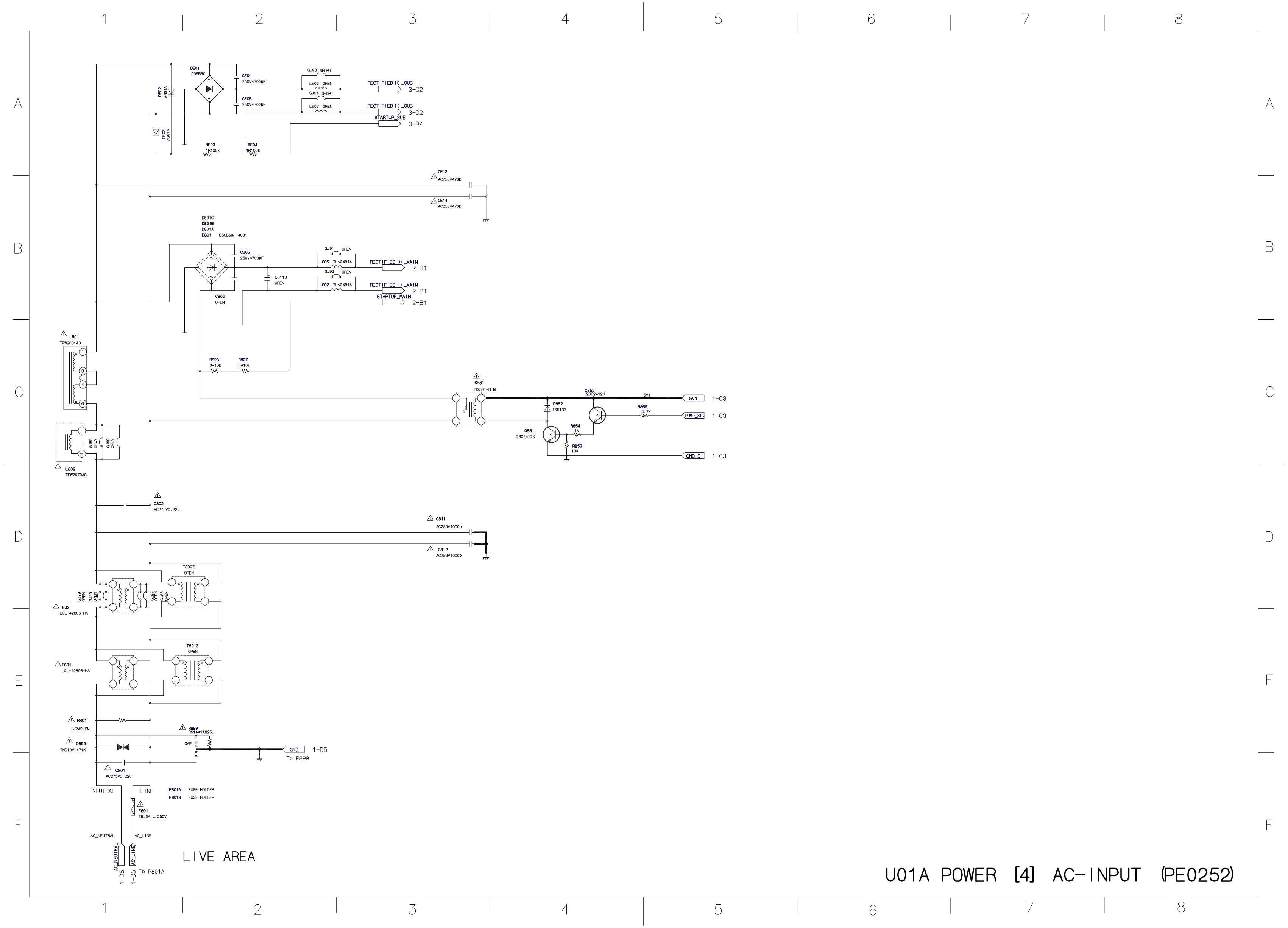

PG04
EARTH TERMINAL
MET31-0332
To chassis GND
GND_1
GND_1
2-C7
BL_Vcc
BL_Vcc
2-C7
P804A
P805A
2.0mm10P
B10B-PH-K-S
2.0mm10P
B10B-PH-K-S
POWER
TO U02A LOW_B [1] CONNECTOR (PE0253)
P806B ← P806A
5V1
GND
POWER_SIG
AUDIO_VCC
AUDIO_VCC
GND_A
GND_A
24V_INV
5V1
4-C5
GND_D
4-C5
POWER_SIG
4-C5
AUDIO_VCC
2-B7
24V_INV
2-C7
P806A
8P CONNECTOR
TO U02A LOW_B [1] CONNECTOR (PE0253)
P807B ← P807A
GND
GND
18V
18V
GND
40V
18V
3-C6
40V
3-B6
P807A
6P CONNECTOR
PG03
EARTH TERMINAL
MET31-0332
To GAP
4-E2
GND
P899
OPEN
AC_LINE
4-F1
AC_LINE
AC_NEUTRAL
4-F1
AC_NEUTRAL
BROWN
(BLACK)
BLUE
(WHITE)
P801A
Lock 2P_11.88mm_S

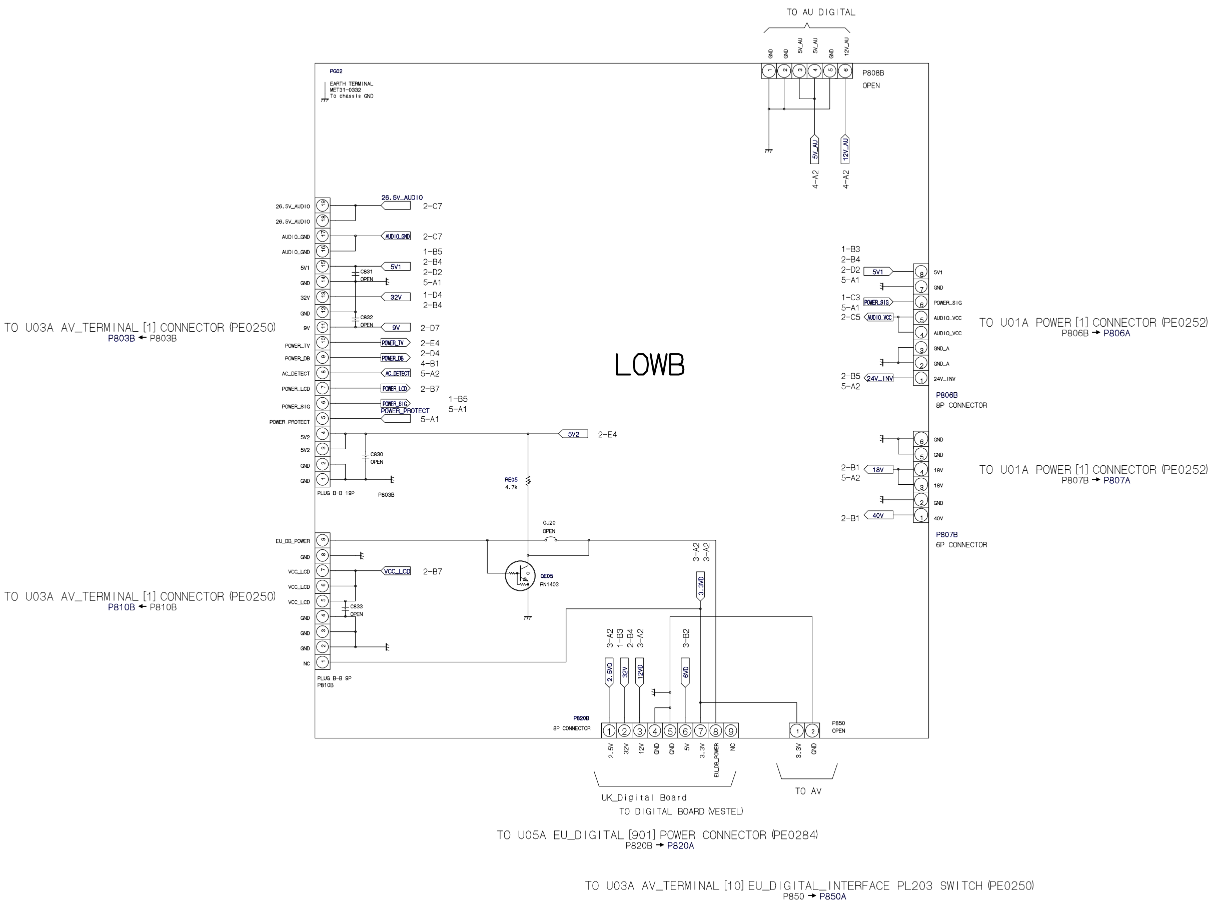
U01A POWER [1] CONNECTOR (PE0252)


RECTIFIED (+) _SUB
4-A3
RECTIFIED (+) _SUB
RECTIFIED (-) _SUB
4-A3
RECTIFIED (-) _SUB
STARTUP_SUB
4-A3
STARTUP_SUB
FE01
250V F3.15AL/T3.15AL
CE10
450V120uF
TE62
TPW3586AD
DE72
FR105-FL
15mA
40V
40V
1-D3
CE82
100V47
ZE72
SMP125M01A00/20P1000
P
DE75
FMX-12S (023
DE75A
HEAT SINK
DE75B
DE75C
P
ZE75
SMP125M05A00/20P5000
18V
1-D3
CE85
25V3300uF
QE01
STR-W6765
D
S/GND
Vcc
SS/OLP
FB
OCP/BD
QE01C
QE01B
QE01A
HEAT SINK
LE11
TEM2011AA
CE17
2KV330pF
CE22
OPEN
RE13
27K
DE16
MTZJ20B
DE14
AL01Z
RE19
1/2R8.2
DE09
MTZJ6.8B
RE15
1/6P1k
DE17
AL01Z
RE23
1/2R1.5k
DE05
1SS244
DE07
MTZJ33B
CE07
50V0.47u
CE09
35V3.3
DE15
MTZJ27B
CE12
0.1u
RE16
1k
CE23
B470p
DE08
OPEN
RE14
OPEN
CE29
330p
QE26
TLP421F (GR) /PS2581L1 (D)
1/8W2.2k
RE38
RE48
2.2k
CE43
0.1u
RE39
1.5k
RE43
75k
RE44
10k_F
RE46
1.8k_F
QE83
TA76431S
CE24
50V0.1u
RE12
1/2R220
RE18
2R0.47
RE29
OPEN
DE06
FR105-FL
CE21
OPEN
CE16
35V56uF
CE11
OPEN
LIVE AREA

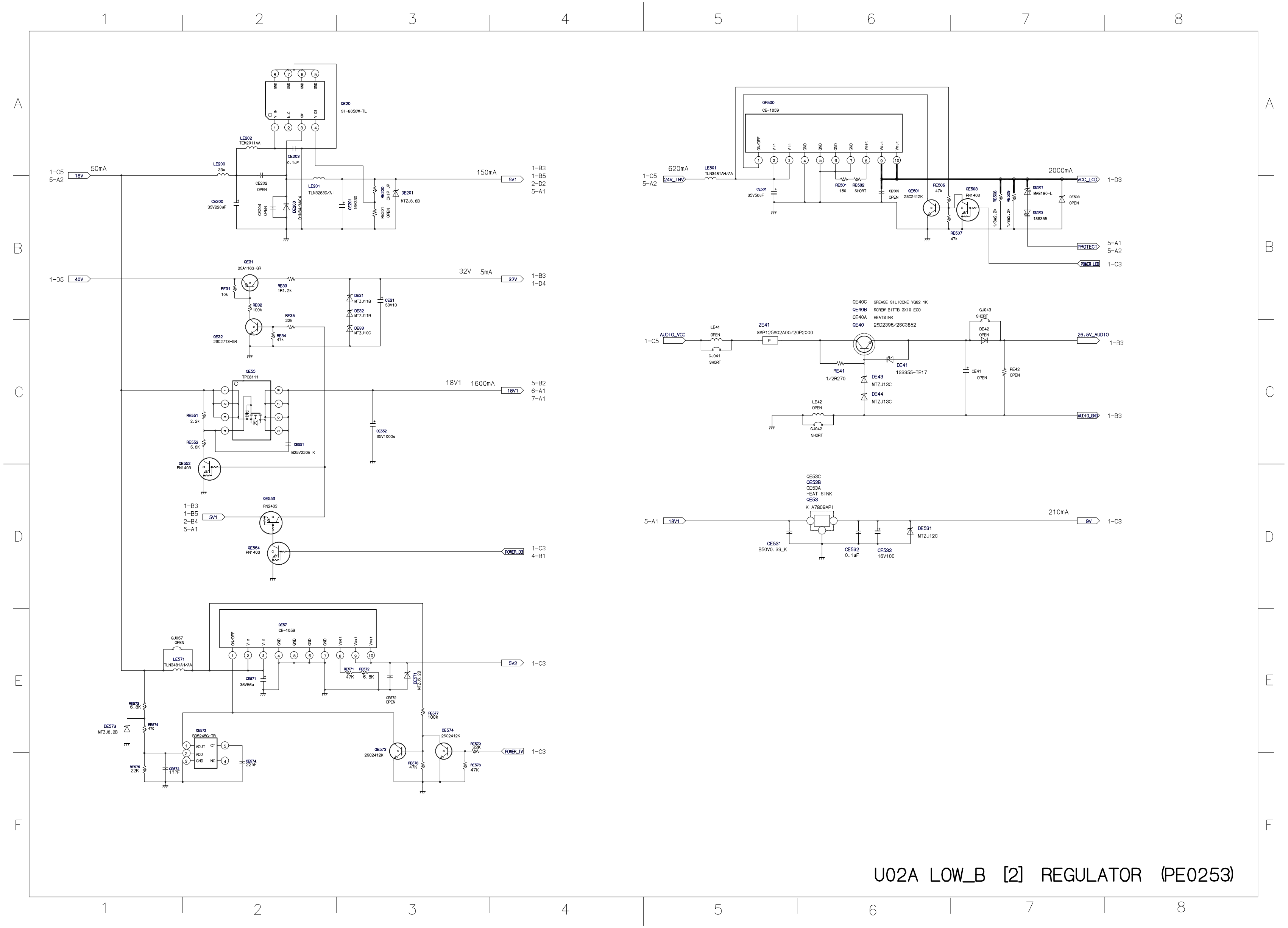
U01A POWER [3] SUB_POWER (PE0252)

U01A POWER [4] AC-INPUT (PE0252)

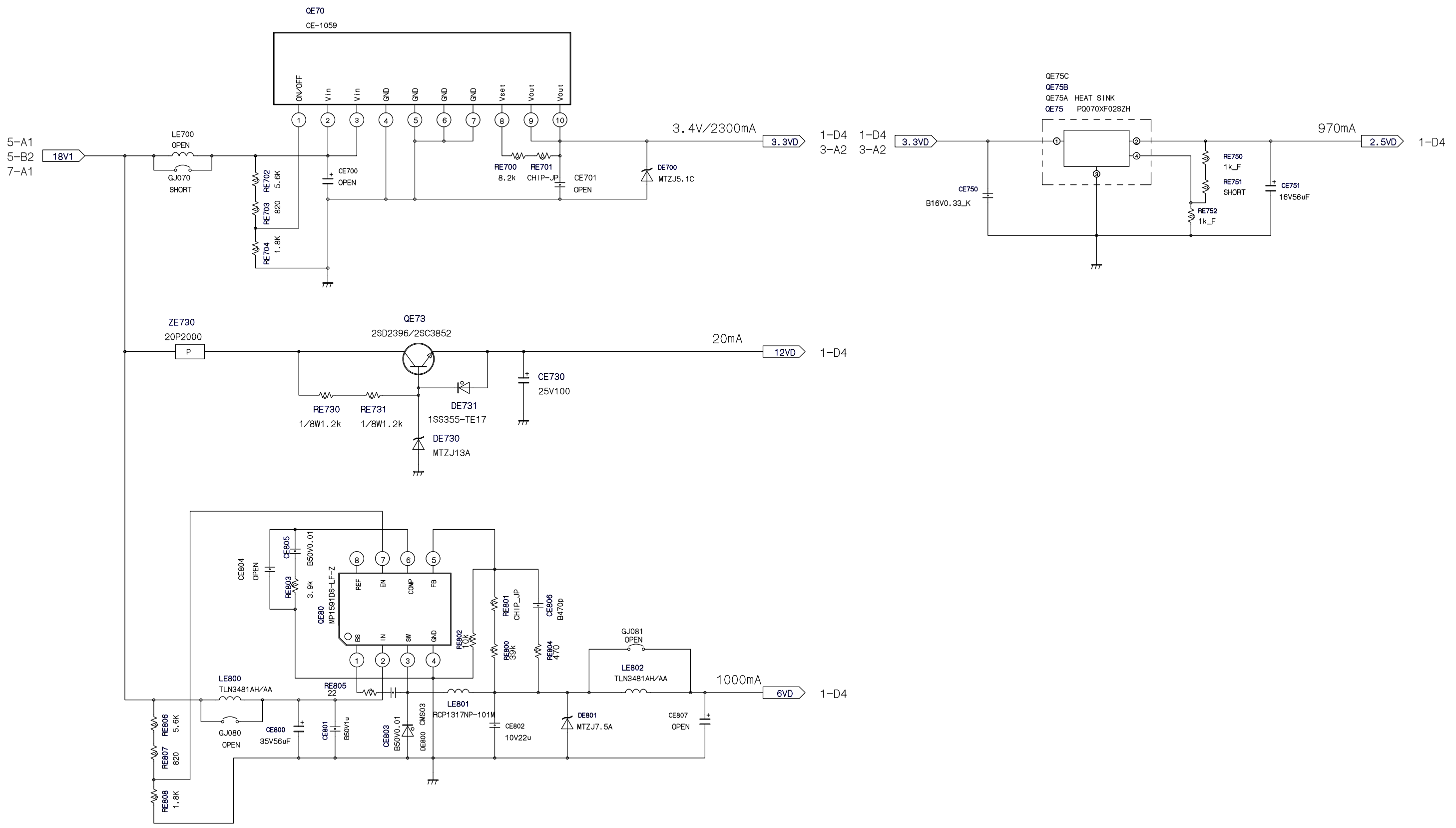

1
2
3
4
5
6
7
8
A
B
C
D
E
F
DE01
D3SB60
DE02
AG01A
DE03
AG01A
CE04
250V4700pF
CE05
250V4700pF
GJ93 SHORT
LE06 OPEN
GJ94 SHORT
LE07 OPEN
RECTIFIED (+) _SUB
3-D2
RECTIFIED (-) _SUB
3-D2
STARTUP_SUB
3-B4
RE03
1R100k
RE04
1R100k
CE13
AC250V470p
CE14
AC250V470p
D801C
D801B
D801A
D801 D5SB60, 4001
C805
250V4700pF
C806
OPEN
C8110
OPEN
GJ91 OPEN
L806 TLN3481AH
GJ92 OPEN
L807 TLN3481AH
RECTIFIED (+) _MAIN
2-B1
RECTIFIED (-) _MAIN
2-B1
STARTUP_MAIN
2-B1
R828
2R10k
R827
2R10k
L801
TPW2081AS
L802
TPW2070AS
GJ85 OPEN
GJ86 OPEN
SR81
DG5D1-0 (M)
D852
1SS133
Q852
2SC2412K
Q851
2SC2412K
5V1
5V1
1-C3
R869
4.7k
POWER_SIG
1-C3
R854
1k
R853
10k
GND_D
1-C3
C802
AC275V0.22u
C811
AC250V1000p
C812
AC250V1000p
T802Z
OPEN
GJ89 OPEN
GJ90 OPEN
GJ87 OPEN
GJ88 OPEN
T802
LCL-42806-HA
T801Z
OPEN
T801
LCL-42806-HA
R801
1/2W2.2M
R899
RN14A1A825J
GAP
D899
TND10V-471K
GND
1-D5
To P899
C801
AC275V0.22u
NEUTRAL
LINE
F801A FUSE HOLDER
F801B FUSE HOLDER
F801
T6.3A L/250V
AC_NEUTRAL
AC_LINE
AC_NEUTRAL
AC_LINE
1-D5
1-D5
To P801A
LIVE AREA


TO AU DIGITAL
GND
GND
5V_AU
5V_AU
GND
12V_AU
P808B
OPEN
5V_AU
12V_AU
4-A2
4-A2
PG02
EARTH TERMINAL
MET31-0332
To chassis GND
LOWB
26.5V_AUDIO
26.5V_AUDIO
AUDIO_GND
AUDIO_GND
5V1
GND
32V
GND
9V
POWER_TV
POWER_DB
AC_DETECT
POWER_LCD
POWER_SIG
POWER_PROTECT
5V2
5V2
GND
GND
PLUG B-B 19P
P803B
26.5V_AUDIO
2-C7
AUDIO_GND
2-C7
1-B5
2-B4
2-D2
5-A1
5V1
C831
OPEN
32V
1-D4
2-B4
C832
OPEN
9V
2-D7
POWER_TV
2-E4
POWER_DB
2-D4
4-B1
AC_DETECT
5-A2
POWER_LCD
2-B7
POWER_SIG
POWER_PROTECT
1-B5
5-A1
5-A1
5V2
2-E4
C830
OPEN
RE05
4.7k
GJ20
OPEN
QE05
RN1403
TO U03A AV_TERMINAL [1] CONNECTOR (PE0250)
P803B ← P803B
EU_DB_POWER
GND
VCC_LCD
VCC_LCD
VCC_LCD
GND
GND
GND
NC
PLUG B-B 9P
P810B
VCC_LCD
2-B7
C833
OPEN
TO U03A AV_TERMINAL [1] CONNECTOR (PE0250)
P810B ← P810B
3-A2
3-A2
3.3VD
3-A2
1-B3
2-B4
3-A2
3-B2
2.5VD
32V
12VD
6VD
P820B
8P CONNECTOR
2.5V
32V
12V
GND
GND
5V
3.3V
EU_DB_POWER
NC
P850
OPEN
3.3V
GND
UK_Digital Board
TO DIGITAL BOARD (VESTEL)
TO AV
TO U05A EU_DIGITAL [901] POWER CONNECTOR (PE0284)
P820B → P820A
TO U03A AV_TERMINAL [10] EU_DIGITAL_INTERFACE PL203 SWITCH (PE0250)
P850 → P850A
1-B3
2-B4
2-D2
5-A1
5V1
1-C3
5-A1
POWER_SIG
2-C5
AUDIO_VCC
2-B5
5-A2
24V_INV
5V1
GND
POWER_SIG
AUDIO_VCC
AUDIO_VCC
GND_A
GND_A
24V_INV
P806B
8P CONNECTOR
TO U01A POWER [1] CONNECTOR (PE0252)
P806B → P806A
2-B1
5-A2
18V
2-B1
40V
GND
GND
18V
18V
GND
40V
P807B
6P CONNECTOR
TO U01A POWER [1] CONNECTOR (PE0252)
P807B → P807A

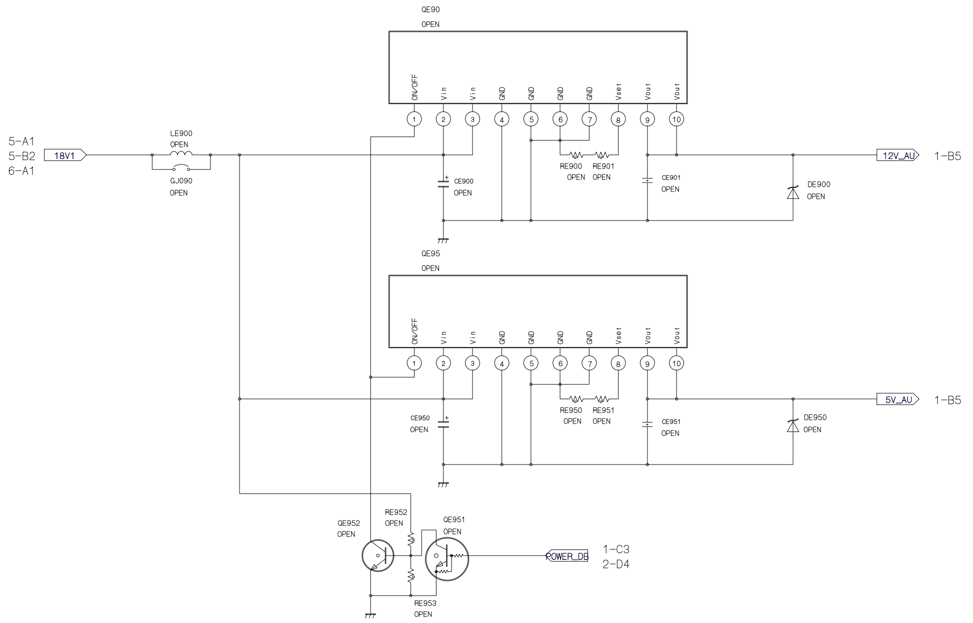
U02A LOW_B [1] CONNECTOR (PE0253)


QE20
SI-8050W-TL
LE202
TEM2011AA
CE203
0.1uF
LE200
33u
CE202
OPEN
LE201
TLN3283D/AI
CE200
35V220uF
CE204
OPEN
DE200
CE201
16V330
RE200
CHIP_JP
RE201
OPEN
DE201
MTZJ6.8B
1-C5
5-A2
18V
50mA
150mA
5V1
1-B3
1-B5
2-D2
5-A1
QE31
2SA1163-GR
RE31
10k
RE33
1R1.2k
RE32
100k
RE35
22k
RE34
47k
QE32
2SC2713-GR
DE31
MTZJ11B
DE32
MTZJ11B
DE33
MTZJ10C
CE31
50V10
1-D5
40V
32V
5mA
32V
1-B3
1-D4
QE55
TPC8111
RE551
2.2k
RE552
5.6K
QE552
RN1403
CE551
B25V220n_K
CE552
35V1000u
18V1
1600mA
18V1
5-B2
6-A1
7-A1
1-B3
1-B5
2-B4
5-A1
5V1
QE553
RN2403
QE554
RN1403
POWER_DB
1-C3
4-B1
QE57
CE-1059
ON/OFF
Vin
GND
Vset
Vout
GJ057
OPEN
LE571
TLN3481AH/AA
CE571
35V56u
RE571
47K
RE572
6.8K
CE572
OPEN
DE571
MTZJ6.2B
5V2
1-C3
RE573
6.8K
DE573
MTZJ8.2B
RE574
470
QE572
BD5245G-TR
VOUT
VDD
GND
CT
NC
CE573
1uF
CE574
22nF
RE575
22K
RE577
100k
QE574
2SC2412K
QE573
2SC2412K
RE576
47K
RE579
RE578
47K
POWER_TV
1-C3
QE500
CE-1059
1-C5
5-A2
620mA
24V_INV
LE501
TLN3481AH/AA
CE501
35V56uF
RE501
150
RE502
SHORT
CE503
OPEN
QE501
2SC2412K
RE506
47k
QE503
RN1403
RE507
47k
RE508
1/2R2.2k
RE509
1/2R2.2k
DE501
MA8180-L
DE502
1SS355
DE503
OPEN
2000mA
VCC_LCD
1-D3
PROTECT
5-A1
5-A2
POWER_LCD
1-C3
QE40C
GREASE SILICONE YG62 1K
QE40B
SCREW BITTB 3X10 ECO
QE40A
HEATSINK
QE40
2SD2396/2SC3852
AUDIO_VCC
1-C5
LE41
OPEN
GJ041
SHORT
ZE41
SMP125M02A0G/20P2000
RE41
1/2R270
DE41
1SS355-TE17
DE43
MTZJ13C
DE44
MTZJ13C
GJ043
SHORT
DE42
OPEN
CE41
OPEN
RE42
OPEN
26.5V_AUDIO
1-B3
LE42
OPEN
GJ042
SHORT
AUDIO_GND
1-B3
QE53C
QE53B
QE53A
HEAT SINK
QE53
KIA7809API
5-A1
18V1
210mA
9V
1-C3
CE531
B50V0.33_K
CE532
0.1uF
CE533
16V100
DE531
MTZJ12C
1
2
3
4
5
6
7
8
A
B
C
D
E
F

U02A LOW_B [2] REGULATOR (PE0253)

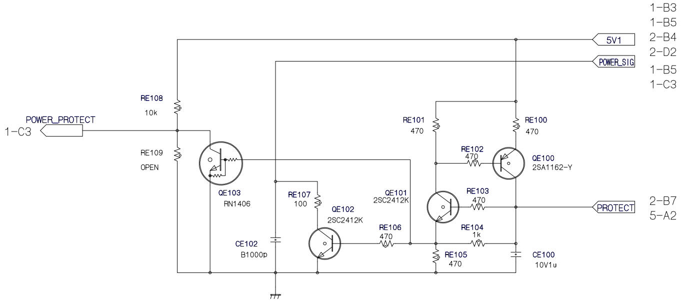

QE70
CE-1059
ON/OFF
Vin
Vin
GND
GND
GND
GND
Vset
Vout
Vout
1
2
3
4
5
6
7
8
9
10
5-A1
5-B2
7-A1
18V1
LE700
OPEN
GJ070
SHORT
RE702
5.6K
RE703
820
RE704
1.8K
CE700
OPEN
RE700
8.2k
RE701
CHIP-JP
CE701
OPEN
DE700
MTZJ5.1C
3.4V/2300mA
3.3VD
1-D4
3-A2
1-D4
3-A2
3.3VD
QE75C
QE75B
QE75A HEAT SINK
QE75 PQ070XF02SZH
CE750
B16V0.33_K
RE750
1k_F
RE751
SHORT
RE752
1k_F
CE751
16V56uF
970mA
2.5VD
1-D4
ZE730
20P2000
P
QE73
2SD2396/2SC3852
20mA
12VD
1-D4
CE730
25V100
RE730
1/8W1.2k
RE731
1/8W1.2k
DE731
1SS355-TE17
DE730
MTZJ13A
CE805
B50V0.01
CE804
OPEN
RE803
3.9k
QE80
MP1591DS-LF-Z
REF
EN
COMP
FB
BS
IN
SW
GND
8
7
6
5
1
2
3
4
RE802
10k
RE801
CHIP_JP
CE806
B470p
RE800
39k
RE804
470
GJ081
OPEN
LE802
TLN3481AH/AA
1000mA
6VD
1-D4
LE800
TLN3481AH/AA
RE805
22
GJ080
OPEN
CE800
35V56uF
CE801
B50V1u
CE803
B50V0.01
CMS03
DE800
LE801
RCP1317NP-101M
CE802
10V22u
DE801
MTZJ7.5A
CE807
OPEN
RE806
5.6K
RE807
820
RE808
1.8K
1
2
1
2
A
A
B
B

U02A LOW_B [3] for UK DIGITAL (PE0253)

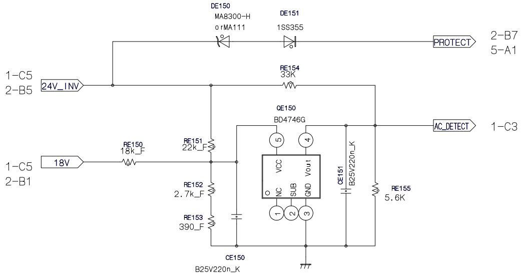

QE90
OPEN
ON/OFF
Vin
Vin
GND
GND
GND
GND
Vset
Vout
Vout
1
2
3
4
5
6
7
8
9
10
5-A1
5-B2
6-A1
18V1
LE900
OPEN
GJ090
OPEN
CE900
OPEN
RE900
OPEN
RE901
OPEN
CE901
OPEN
DE900
OPEN
12V_AU
1-B5
QE95
OPEN
ON/OFF
Vin
Vin
GND
GND
GND
GND
Vset
Vout
Vout
1
2
3
4
5
6
7
8
9
10
CE950
OPEN
RE950
OPEN
RE951
OPEN
CE951
OPEN
DE950
OPEN
5V_AU
1-B5
QE952
OPEN
RE952
OPEN
QE951
OPEN
RE953
OPEN
POWER_DB
1-C3
2-D4

U02A LOW_B [4] for AU_DIGITAL (PE0253)

PROTECTER


1-B3
1-B5
2-B4
2-D2
1-B5
1-C3
5V1
POWER_SIG
POWER_PROTECT
1-C3
RE108
10k
RE109
OPEN
QE103
RN1406
RE107
100
QE102
2SC2412K
CE102
B1000p
RE106
470
QE101
2SC2412K
RE101
470
RE100
470
RE102
470
QE100
2SA1162-Y
RE103
470
PROTECT
2-B7
5-A2
RE104
1k
RE105
470
CE100
10V1u

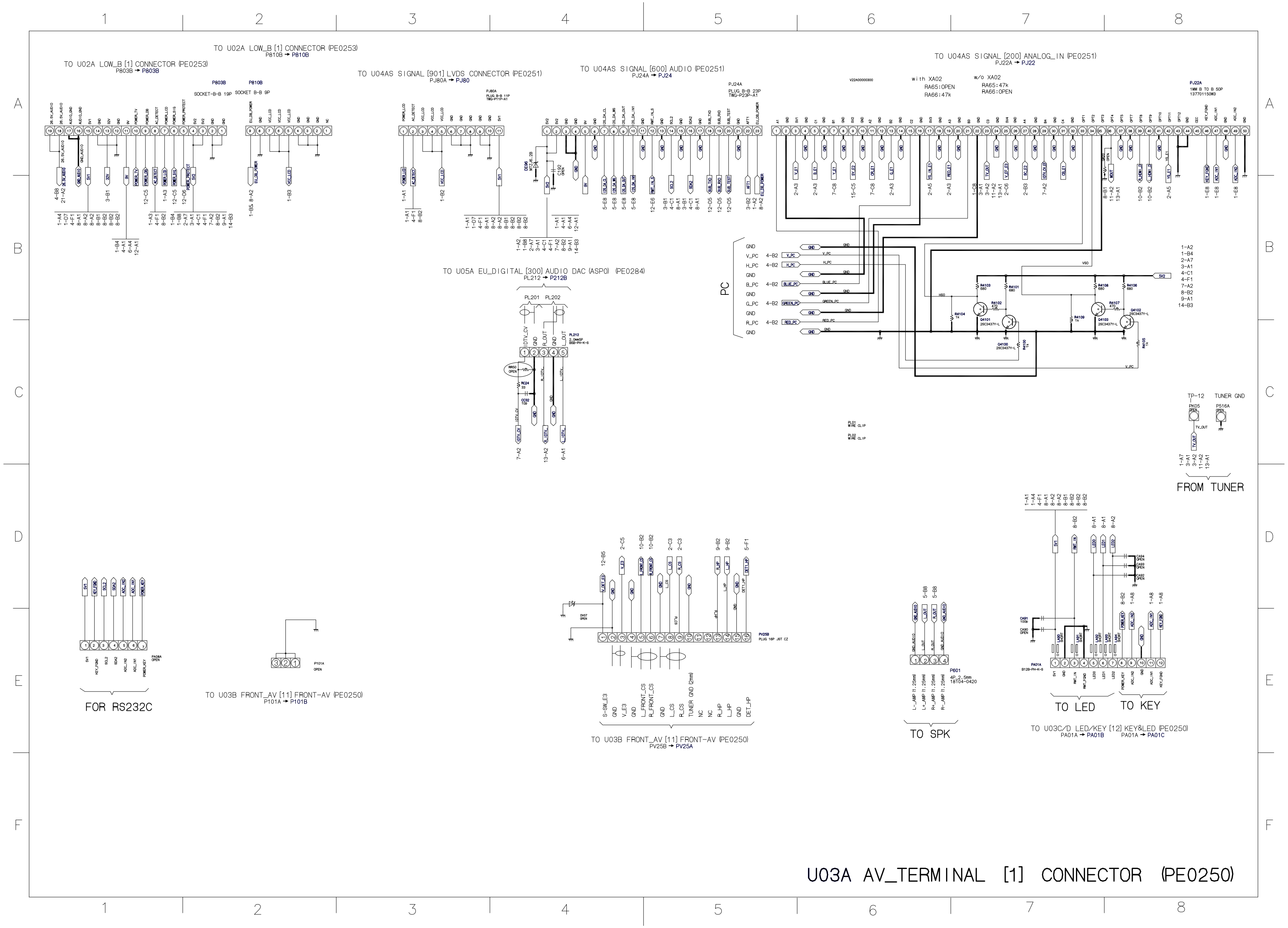
ACDETECT


DE150
MA8300-H
orMA111
DE151
1SS355
PROTECT
2-B7
5-A1
1-C5
2-B5
24V_INV
RE154
33K
QE150
BD4746G
AC_DETECT
1-C3
RE150
18k_F
18V
1-C5
2-B1
RE151
22k_F
RE152
2.7k_F
RE153
390_F
5
4
VCC
Vout
NC
SUB
GND
1
2
3
CE151
B25V220n_K
RE155
5.6K
CE150
B25V220n_K

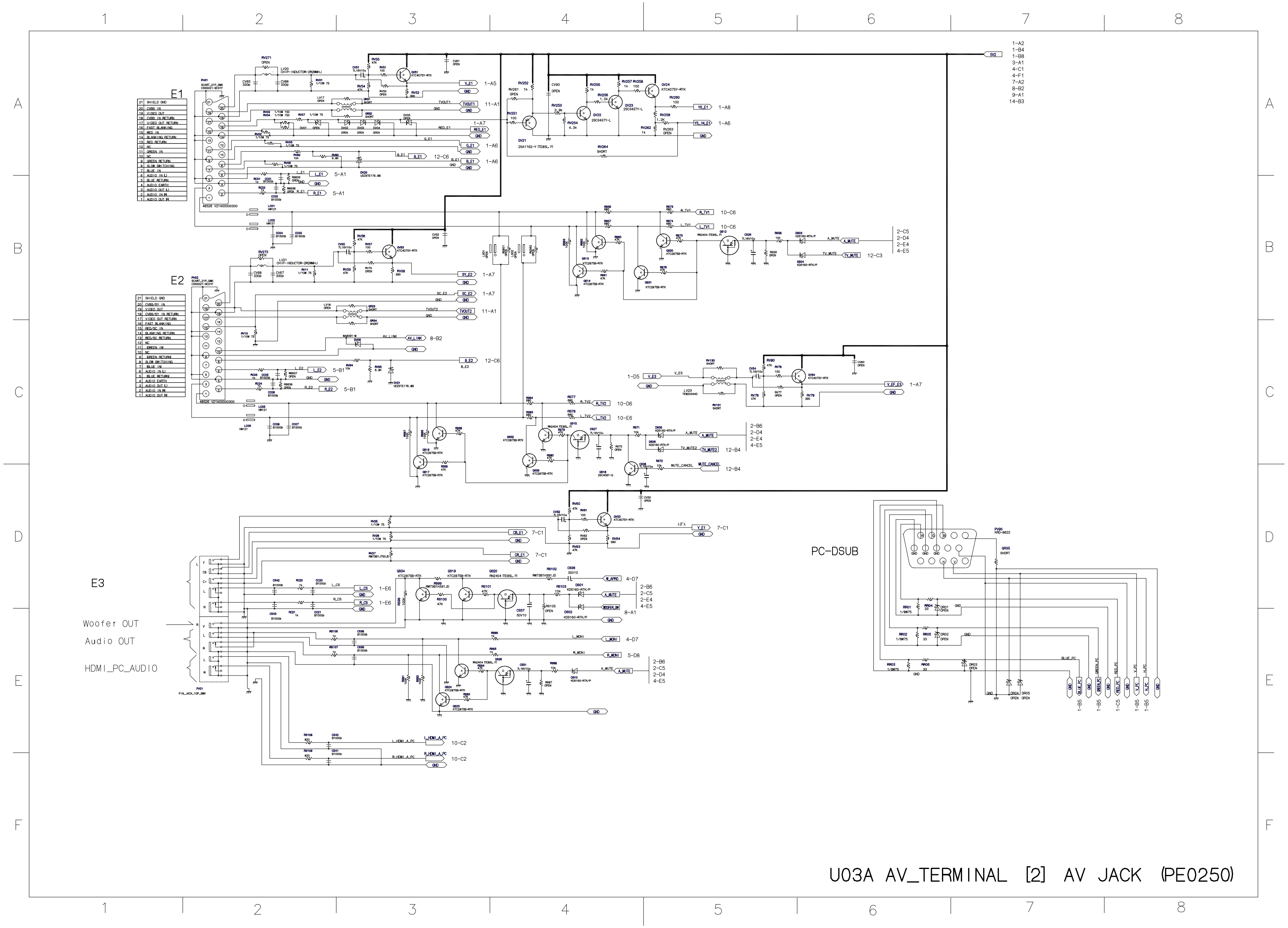
A A

B B

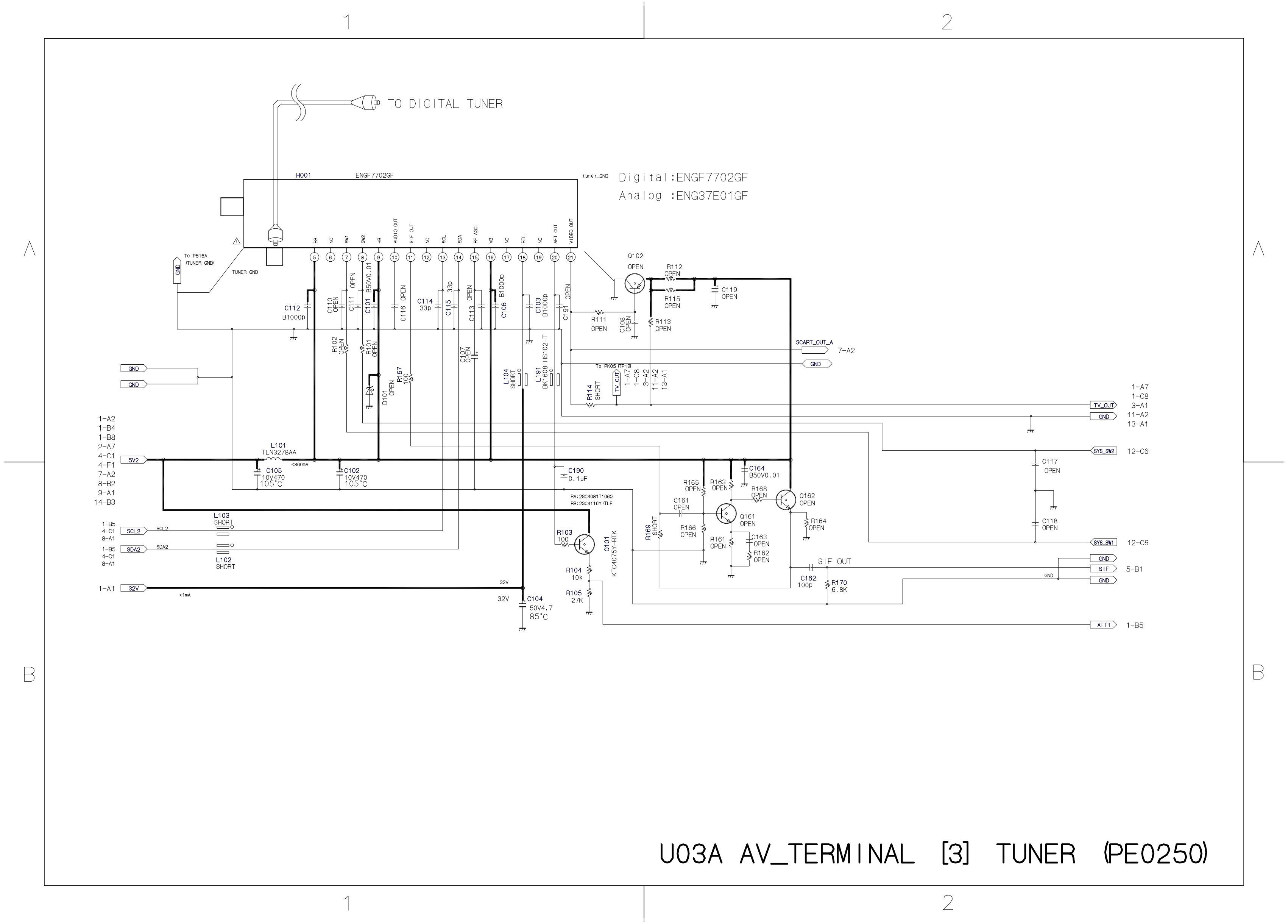
U02A LOW_B [5] OTHER (PE0253)


TO U02A LOW_B [1] CONNECTOR (PE0253)
P810B → P810B
TO U02A LOW_B [1] CONNECTOR (PE0253)
P803B → P803B
SOCKET-B-B 19P
SOCKET B-B 9P
TO U04AS SIGNAL [901] LVDS CONNECTOR (PE0251)
PJ80A → PJ80
TO U04AS SIGNAL [600] AUDIO (PE0251)
PJ24A → PJ24
PLUG B-B 23P
TO U04AS SIGNAL [200] ANALOG_IN (PE0251)
PJ22A → PJ22
with XA02
RA65:OPEN
RA66:47k
w/o XA02
RA65:47k
RA66:OPEN
TO U05A EU_DIGITAL [300] AUDIO DAC (ASP0) (PE0284)
PL212 → P212B
PL201
PL202
PC
GND
V_PC
H_PC
B_PC
G_PC
R_PC
Q4100
Q4101
Q4102
Q4103
TP-12
TUNER GND
FROM TUNER
FOR RS232C
TO U03B FRONT_AV [11] FRONT-AV (PE0250)
P101A → P101B
S-SW_E3
GND
V_E3
GND
L_FRONT_CS
R_FRONT_CS
GND
L_CS
R_CS
TUNER GND (2mil)
NC
NC
R_HP
L_HP
GND
DET_HP
TO U03B FRONT_AV [11] FRONT-AV (PE0250)
PV25B → PV25A
L-_AMP
L+_AMP
R+_AMP
R-_AMP
TO SPK
TO LED
TO KEY
TO U03C/D LED/KEY [12] KEY&LED (PE0250)
PA01A → PA01B
PA01A → PA01C
1 2 3 4 5 6 7 8
A B C D E F

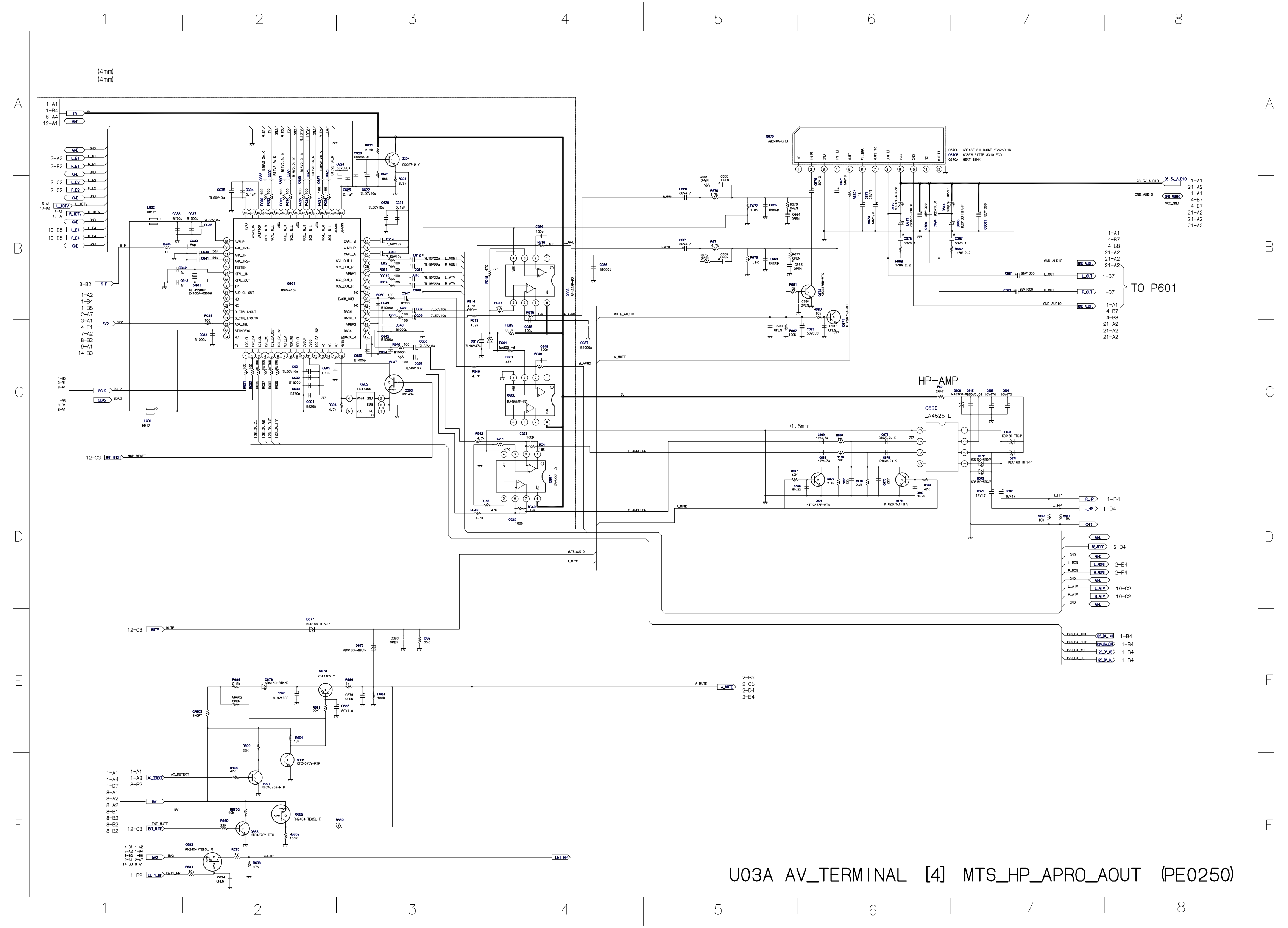
U03A AV_TERMINAL [1] CONNECTOR (PE0250)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
E1
PH01
SCART_21P_SMK
CSS5021-9C01F
21 SHIELD GND
20 CVBS IN
19 VIDEO OUT
18 CVBS IN RETURN
17 VIDEO OUT RETURN
16 FAST BLANKING
15 RED IN
14 BLANKING RETURN
13 RED RETURN
12 NC
11 GREEN IN
10 NC
9 GREEN RETURN
8 SLOW SWITCHING
7 BLUE IN
6 AUDIO IN (L)
5 BLUE RETURN
4 AUDIO EARTH
3 AUDIO OUT (L)
2 AUDIO IN (R)
1 AUDIO OUT (R)
48526 V21A00000300
E2
PH02
SCART_21P_SMK
CSS5021-9C01F
21 SHIELD GND
20 CVBS/SY IN
19 VIDEO OUT
18 CVBS/SY IN RETURN
17 VIDEO OUT RETURN
16 FAST BLANKING
15 RED/SC IN
14 BLANKING RETURN
13 RED/SC RETURN
12 NC
11 (GREEN IN)
10 NC
9 (GREEN RETURN)
8 SLOW SWITCHING
7 (BLUE IN)
6 AUDIO IN (L)
5 (BLUE RETURN)
4 AUDIO EARTH
3 AUDIO OUT (L)
2 AUDIO IN (R)
1 AUDIO OUT (R)
48526 V21A00000300
E3
Woofer OUT
Audio OUT
HDMI_PC_AUDIO
PV01
PIN_JACK_10P_SMK
PC-DSUB
PV50
5V2
1-A2
1-B4
1-B8
3-A1
4-C1
4-F1
7-A2
8-B2
9-A1
14-B3
V_E1
TVOUT1
RED_E1
G_E1
B_E1
L_E1
R_E1
YS_E1
YS_IN_E1
R_TV1
L_TV1
A_MUTE
TV_MUTE
SY_E2
SC_E2
TVOUT2
AV_LINK
B_E2
L_E2
R_E2
V_E3
V_EF_E3
R_TV2
L_TV2
TV_MUTE2
MUTE_CANCEL
CB_E1
CR_E1
Y_E1
L_CS
R_CS
W_APRO
WOOFER_SW
L_MON1
R_MON1
L_HDMI_A_PC
R_HDMI_A_PC
BLUE_PC
GREEN_PC
RED_PC
H_PC
V_PC
GND

U03A AV_TERMINAL [2] AV JACK (PE0250)


1
2
A
B
TO DIGITAL TUNER
H001
ENGF7702GF
tuner_GND
Digital:ENGF7702GF
Analog :ENG37E01GF
BB
NC
SW1
SW2
+B
AUDIO OUT
SIF OUT
NC
SCL
SDA
RF AGC
VB
NC
BTL
NC
AFT OUT
VIDEO OUT
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
To P516A
(TUNER GND)
GND
TUNER-GND
C112
B1000p
C110
OPEN
C111
OPEN
C101
B50V0.01
C116
OPEN
C114
33p
C115
33p
C113
OPEN
C106
B1000p
C103
B1000p
C191
OPEN
R102
OPEN
R101
OPEN
D101
OPEN
R167
100
C107
OPEN
L104
SHORT
L191
BK1608 HS102-T
To PK05 (TP12)
TV_OUT
1-A7
1-C8
3-A2
11-A2
13-A1
R114
SHORT
Q102
OPEN
R112
OPEN
R115
OPEN
C119
OPEN
R111
OPEN
C108
OPEN
R113
OPEN
SCART_OUT_A
7-A2
GND
GND
GND
1-A2
1-B4
1-B8
2-A7
4-C1
4-F1
7-A2
8-B2
9-A1
14-B3
5V2
L101
TLN3278AA
<360mA
C105
10V470
105°C
C102
10V470
105°C
C190
0.1uF
RA:2SC4081T106Q
RB:2SC4116Y (TLF
1-B5
4-C1
8-A1
SCL2
SCL2
L103
SHORT
1-B5
4-C1
8-A1
SDA2
SDA2
L102
SHORT
1-A1
32V
<1mA
32V
32V
C104
50V4.7
85°C
R103
100
Q101
KTC4075Y-RTK
R104
10k
R105
27K
R165
OPEN
R163
OPEN
C164
B50V0.01
R168
OPEN
Q162
OPEN
C161
OPEN
Q161
OPEN
R169
SHORT
R166
OPEN
R161
OPEN
C163
OPEN
R162
OPEN
R164
OPEN
SIF OUT
C162
100p
R170
6.8K
1-A7
1-C8
3-A1
11-A2
13-A1
TV_OUT
GND
SYS_SW2
12-C6
C117
OPEN
C118
OPEN
SYS_SW1
12-C6
GND
SIF
GND
GND
5-B1
AFT1
1-B5

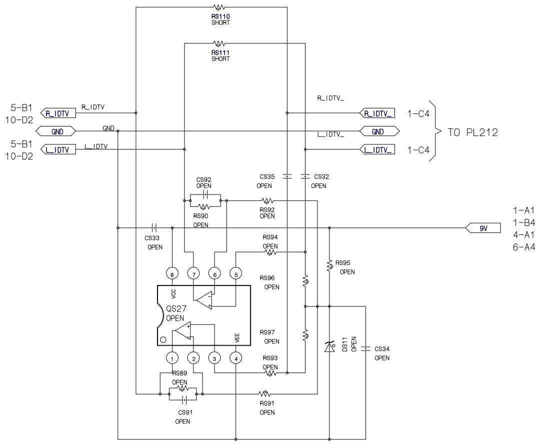
U03A AV_TERMINAL [3] TUNER (PE0250)



HP-AMP
LA4525-E
TO P601
MSP4410K
BA4558F-E2
TA8246AHQ
(4mm)
(1.5mm)

U03A AV_TERMINAL [4] MTS_HP_APRO_AOUT (PE0250)

A

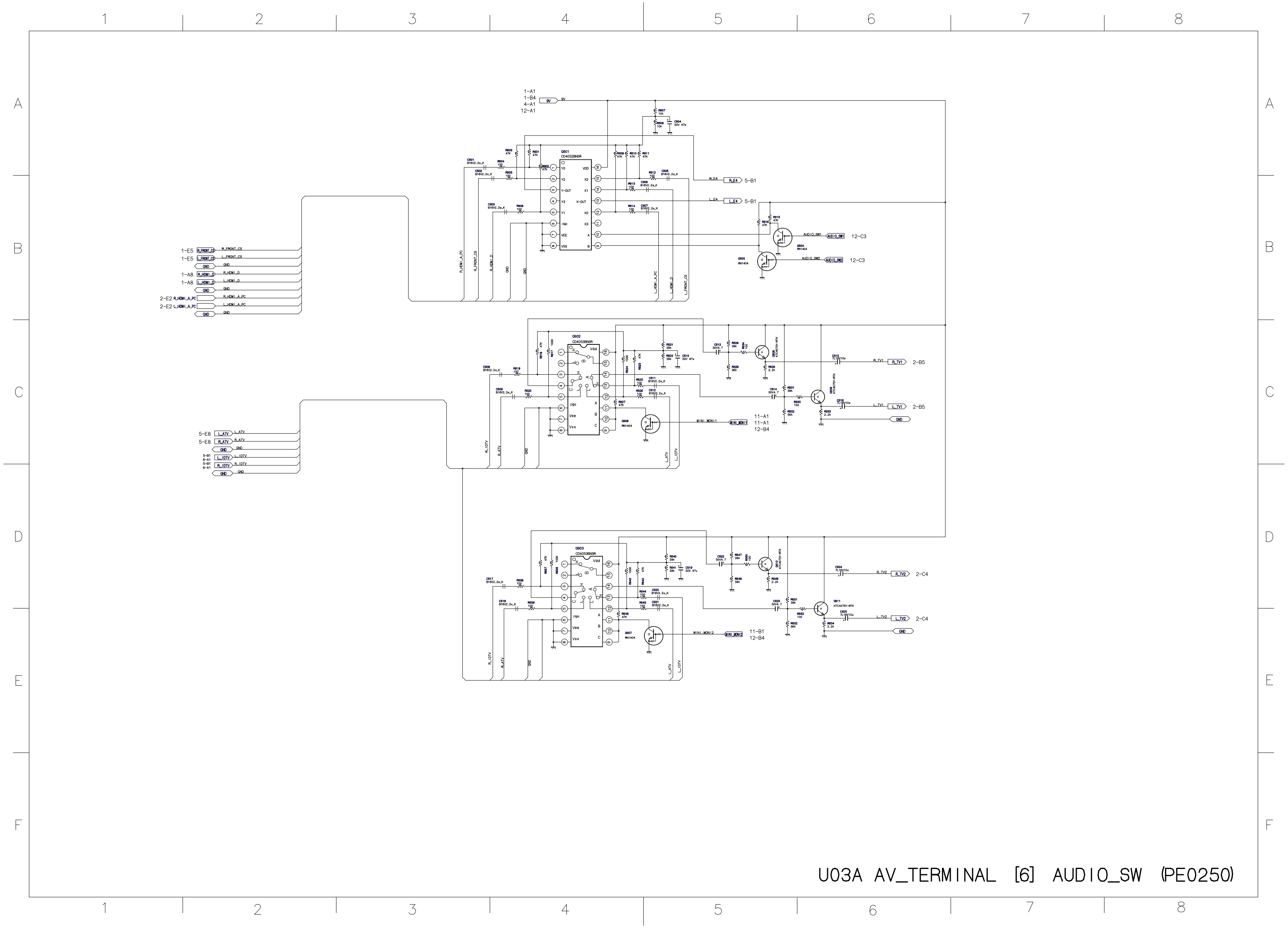

RS110
SHORT
RS111
SHORT
5-B1
10-D2
R_IDTV
R_IDTV
GND
GND
5-B1
10-D2
L_IDTV
L_IDTV
R_IDTV_
R_IDTV_
1-C4
GND
L_IDTV_
L_IDTV_
1-C4
TO PL212
CS92
OPEN
RS90
OPEN
CS35
OPEN
CS32
OPEN
RS92
OPEN
CS33
OPEN
9V
1-A1
1-B4
4-A1
6-A4
RS94
OPEN
RS95
OPEN
8
7
6
5
RS96
OPEN
VCC
QS27
OPEN
VEE
RS97
OPEN
DS11
OPEN
CS34
OPEN
1
2
3
4
RS93
OPEN
RS89
OPEN
CS91
OPEN
RS91
OPEN

B

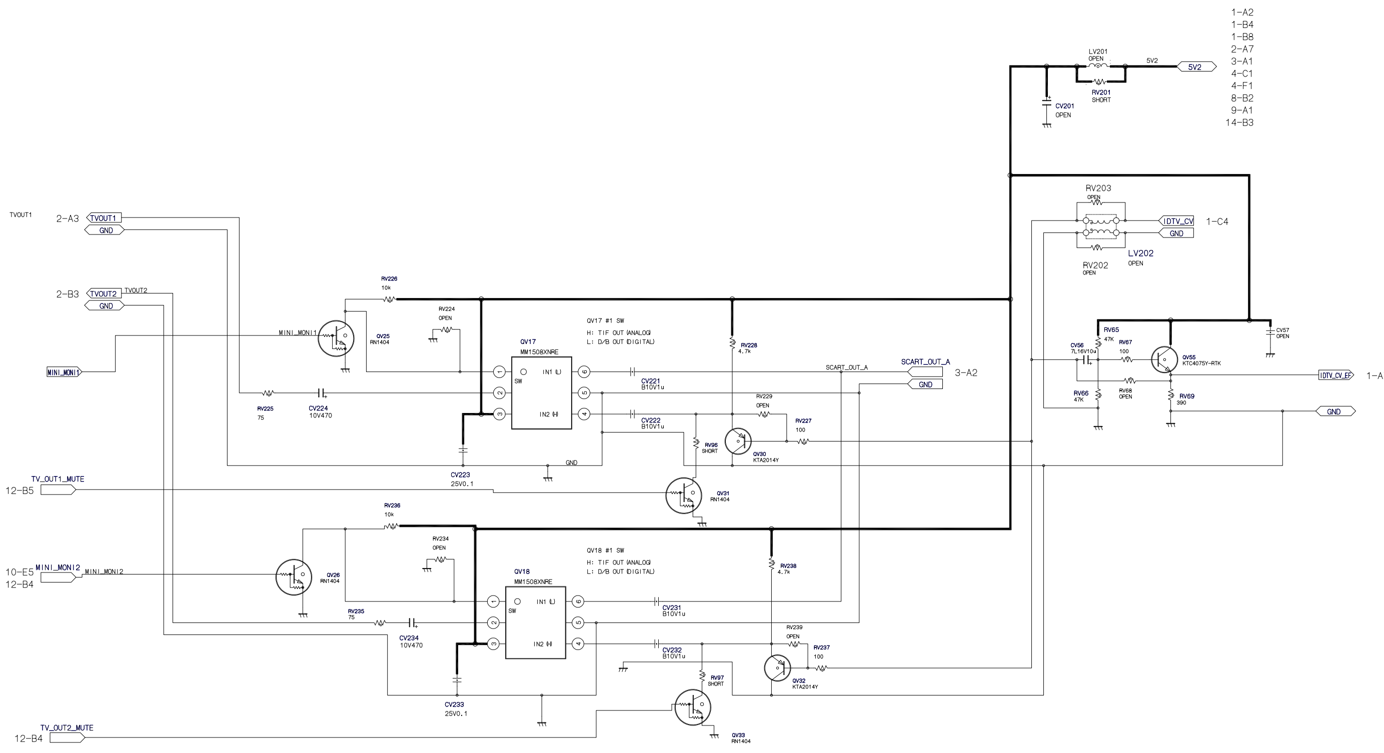
A

B

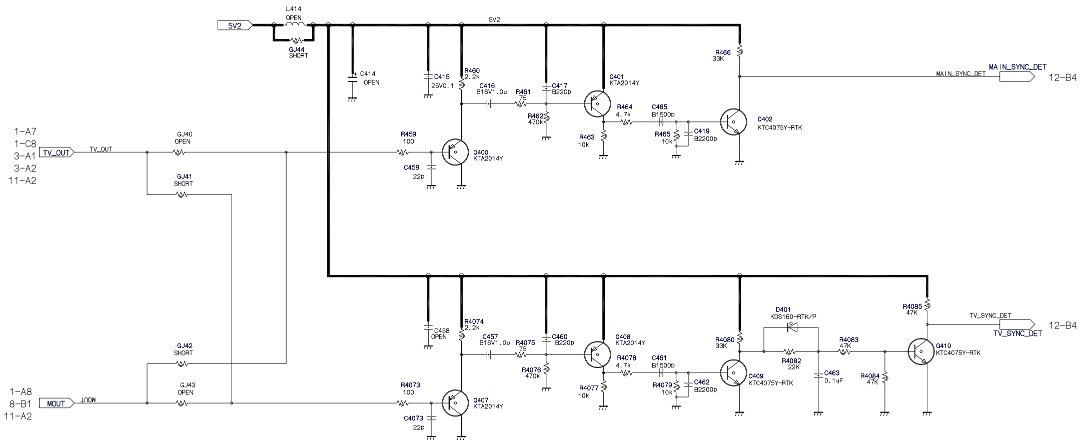
U03A AV_TERMINAL [5] EU_DIGITAL_RECEIVE CIRCUIT (PE0250)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
1-A1
1-B4
4-A1
12-A1
9V
RS07 10k
RS08 10k
CS04 50V 47u
QS01
CD4052BNSR
Y0
Y2
Y-OUT
Y3
Y1
INH
VEE
VSS
VDD
X2
X1
X-OUT
X0
X3
A
B
RS01 47K
RS02 47K
RS03 47K
RS04 100
RS05 100
RS06 100
CS01 B16V2.2u_K
CS02 B16V2.2u_K
CS03 B16V2.2u_K
RS09 47K
RS10 47K
RS11 47K
RS12 100
RS13 100
RS14 100
CS05 B16V2.2u_K
CS06 B16V2.2u_K
CS07 B16V2.2u_K
R_E4
R_E4 5-B1
L_E4
L_E4 5-B1
RS15 47K
RS16 47K
QS04 RN1404
QS05 RN1404
AUDIO_SW1
AUDIO_SW1 12-C3
AUDIO_SW2
AUDIO_SW2 12-C3
1-E5 R_FRONT_CS
1-E5 L_FRONT_CS
GND
1-A8 R_HDMI_D
1-A8 L_HDMI_D
GND
2-E2 R_HDMI_A_PC
2-E2 L_HDMI_A_PC
GND
R_FRONT_CS
L_FRONT_CS
R_HDMI_D
L_HDMI_D
R_HDMI_A_PC
L_HDMI_A_PC
QS02
CD4053BNSR
INH
Vee
Vss
Vdd
A
B
C
H
L
RS17 100K
RS18 47K
RS19 100
RS20 100
CS08 B16V2.2u_K
CS09 B16V2.2u_K
RS21 39k
RS22 39k
CS10 50V 47u
RS23 47K
RS24 100K
RS25 100
RS26 100
CS11 B16V2.2u_K
CS12 B16V2.2u_K
RS27 47K
QS06 RN1404
MINI_MONI1
MINI_MONI1 11-A1 11-A1 12-B4
CS13 50V4.7
RS28 39k
RS29 56k
RS34 100
QS08 KTC4075Y-RTK
RS30 2.2k
CS15 7L16V10u
R_TV1
R_TV1 2-B5
CS14 50V4.7
RS31 39k
RS32 56k
RS35 100
QS09 KTC4075Y-RTK
RS33 2.2k
CS16 7L16V10u
L_TV1
L_TV1 2-B5
GND
5-E8 L_ATV
5-E8 R_ATV
GND
5-B1 6-A1 L_IDTV
5-B1 6-A1 R_IDTV
GND
L_ATV
R_ATV
L_IDTV
R_IDTV
QS03
CD4053BNSR
RS36 100K
RS37 47K
RS38 100
RS39 100
CS17 B16V2.2u_K
CS18 B16V2.2u_K
RS40 39k
RS41 39k
CS19 50V 47u
RS42 47K
RS43 100K
RS44 100
RS45 100
CS20 B16V2.2u_K
CS21 B16V2.2u_K
RS46 47K
QS07 RN1404
MINI_MONI2
MINI_MONI2 11-B1 12-B4
CS22 50V4.7
RS47 39k
RS48 56k
RS50 100
QS10 KTC4075Y-RTK
RS49 2.2k
CS24 7L16V10u
R_TV2
R_TV2 2-C4
CS23 50V4.7
RS51 39k
RS52 56k
RS53 100
QS11 KTC4075Y-RTK
RS54 2.2k
CS25 7L16V10u
L_TV2
L_TV2 2-C4
GND

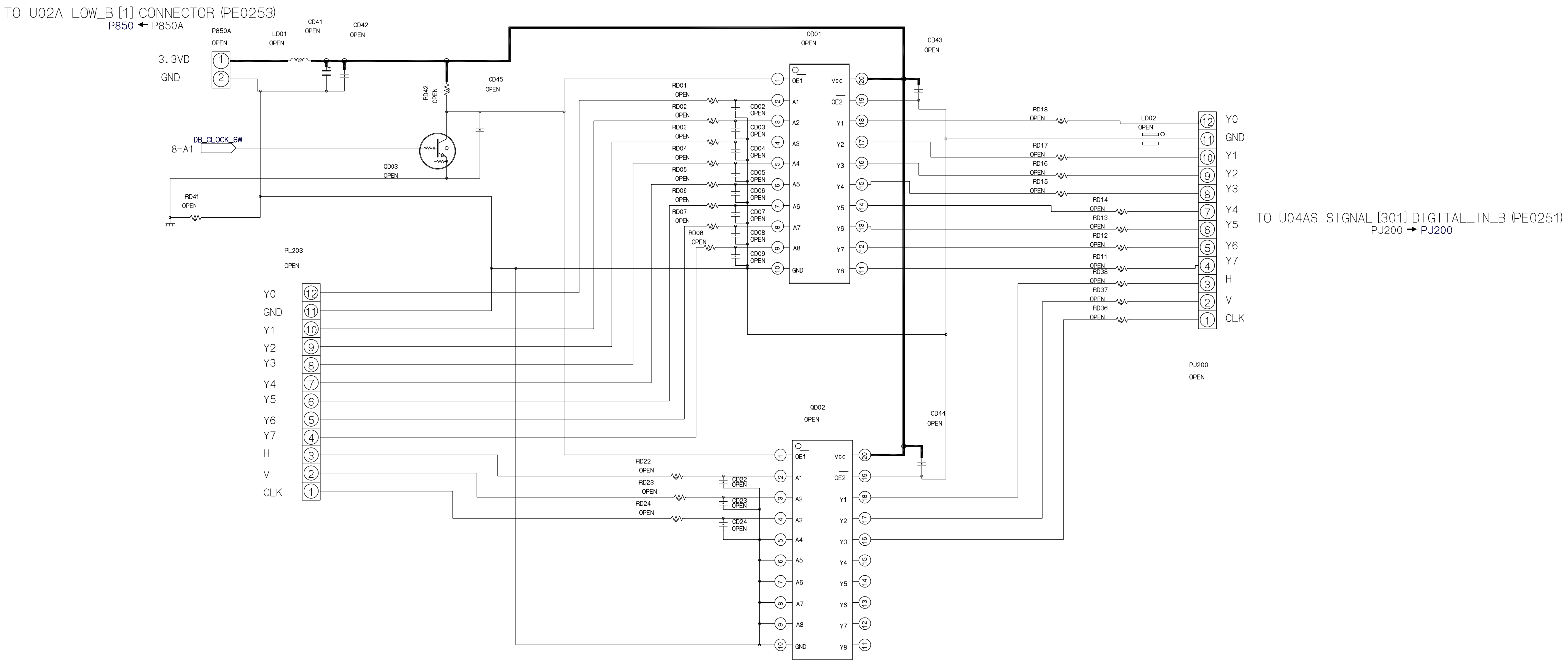
U03A AV_TERMINAL [6] AUDIO_SW (PE0250)


1
2
A
B
TVOUT1
2-A3
TVOUT1
GND
2-B3
TVOUT2
TVOUT2
GND
MINI_MONI1
MINI_MONI1
QV25
RN1404
RV226
10k
RV224
OPEN
RV225
75
CV224
10V470
QV17
MM1508XNRE
QV17 #1 SW
H: TIF OUT (ANALOG)
L: D/B OUT (DIGITAL)
SW
IN1 (L)
IN2 (H)
CV221
B10V1u
CV222
B10V1u
CV223
25V0.1
GND
RV228
4.7k
RV229
OPEN
RV227
100
RV96
SHORT
QV30
KTA2014Y
QV31
RN1404
SCART_OUT_A
SCART_OUT_A
GND
3-A2
TV_OUT1_MUTE
12-B5
RV236
10k
RV234
OPEN
QV26
RN1404
10-E5
12-B4
MINI_MONI2
MINI_MONI2
RV235
75
CV234
10V470
QV18
MM1508XNRE
QV18 #1 SW
H: TIF OUT (ANALOG)
L: D/B OUT (DIGITAL)
CV231
B10V1u
CV232
B10V1u
CV233
25V0.1
RV238
4.7k
RV239
OPEN
RV237
100
RV97
SHORT
QV32
KTA2014Y
QV33
RN1404
TV_OUT2_MUTE
12-B4
LV201
OPEN
5V2
5V2
RV201
SHORT
CV201
OPEN
1-A2
1-B4
1-B8
2-A7
3-A1
4-C1
4-F1
8-B2
9-A1
14-B3
RV203
OPEN
IDTV_CV
GND
1-C4
LV202
OPEN
RV202
OPEN
RV65
47K
CV56
7L16V10u
RV67
100
QV55
KTC4075Y-RTK
CV57
OPEN
RV66
47K
RV68
OPEN
RV69
390
IDTV_CV_EF
1-A7
GND

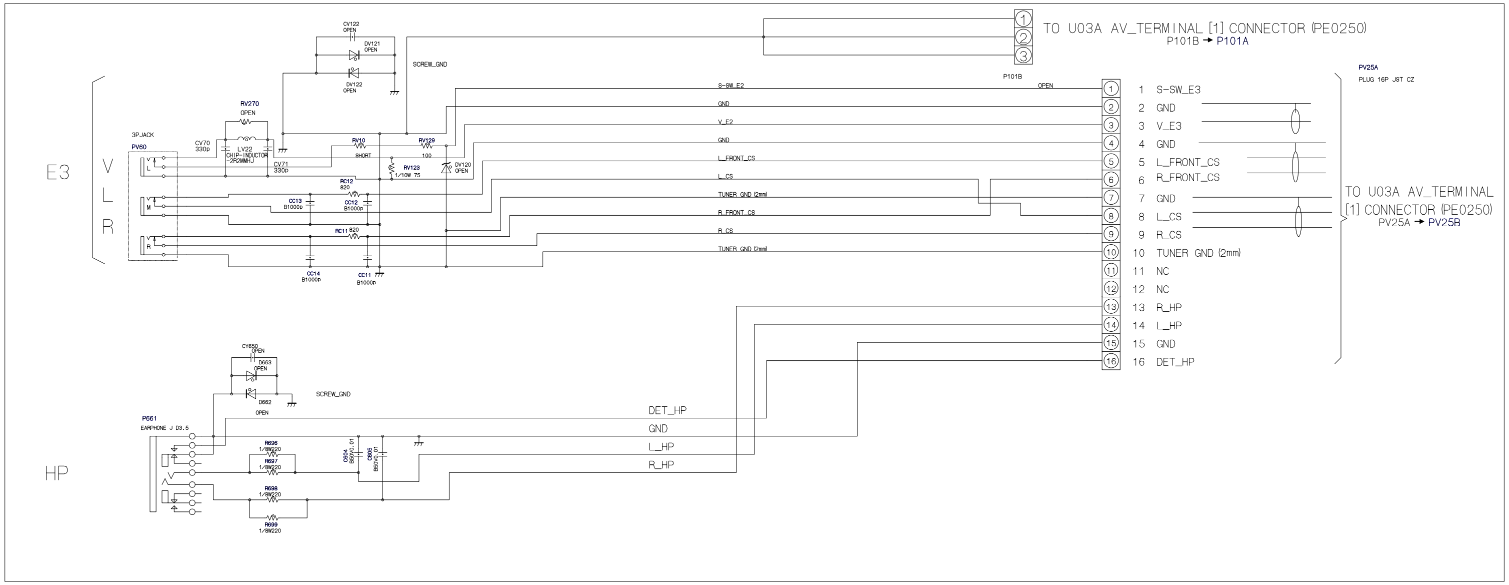
U03A AV_TERMINAL [7] TV-OUT&MONI-OUT (PE0250)


1
2
A
B
5V2
L414
OPEN
GJ44
SHORT
5V2
C414
OPEN
C415
25V0.1
R460
2.2k
C416
B16V1.0u
R461
75
R462
470k
C417
B220p
Q401
KTA2014Y
R463
10k
R464
4.7k
C465
B1500p
R465
10k
C419
B2200p
Q402
KTC4075Y-RTK
R466
33K
MAIN_SYNC_DET
MAIN_SYNC_DET
12-B4
1-A7
1-C8
3-A1
3-A2
11-A2
TV_OUT
TV_OUT
GJ40
OPEN
GJ41
SHORT
R459
100
C459
22p
Q400
KTA2014Y
C458
OPEN
R4074
2.2k
C457
B16V1.0u
R4075
75
R4076
470k
C460
B220p
Q408
KTA2014Y
R4077
10k
R4078
4.7k
C461
B1500p
R4079
10k
C462
B2200p
Q409
KTC4075Y-RTK
R4080
33K
D401
KDS160-RTK/P
R4082
22K
C463
0.1uF
R4083
47K
R4084
47K
R4085
47K
Q410
KTC4075Y-RTK
TV_SYNC_DET
TV_SYNC_DET
12-B4
GJ42
SHORT
GJ43
OPEN
1-A8
8-B1
11-A2
MOUT
MOUT
R4073
100
C4073
22p
Q407
KTA2014Y

U03A AV_TERMINAL [9] SYNC_DET (PE0250)


TO U02A LOW_B [1] CONNECTOR (PE0253)
P850 ← P850A
P850A OPEN
3.3VD
GND
LD01 OPEN
CD41 OPEN
CD42 OPEN
CD45 OPEN
RD42 OPEN
DB_CLOCK_SW
8-A1
QD03 OPEN
RD41 OPEN
PL203 OPEN
Y0
GND
Y1
Y2
Y3
Y4
Y5
Y6
Y7
H
V
CLK
QD01 OPEN
QD02 OPEN
CD43 OPEN
CD44 OPEN
OE1
A1
A2
A3
A4
A5
A6
A7
A8
GND
Vcc
OE2
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
RD01 OPEN
RD02 OPEN
RD03 OPEN
RD04 OPEN
RD05 OPEN
RD06 OPEN
RD07 OPEN
RD08 OPEN
CD02 OPEN
CD03 OPEN
CD04 OPEN
CD05 OPEN
CD06 OPEN
CD07 OPEN
CD08 OPEN
CD09 OPEN
RD22 OPEN
RD23 OPEN
RD24 OPEN
CD22 OPEN
CD23 OPEN
CD24 OPEN
RD18 OPEN
RD17 OPEN
RD16 OPEN
RD15 OPEN
RD14 OPEN
RD13 OPEN
RD12 OPEN
RD11 OPEN
RD38 OPEN
RD37 OPEN
RD36 OPEN
LD02 OPEN
PJ200 OPEN
TO U04AS SIGNAL [301] DIGITAL_IN_B (PE0251)
PJ200 → PJ200
1
2
A
B

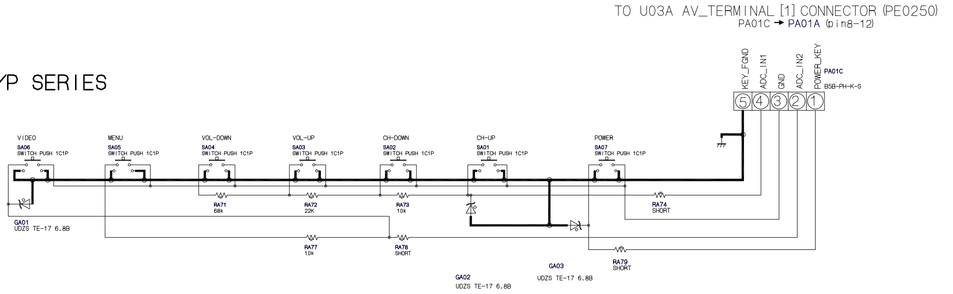
U03A AV_TERMINAL [10] EU_DIGITAL_INTERFACE PL203 SWITCH (PE0250)

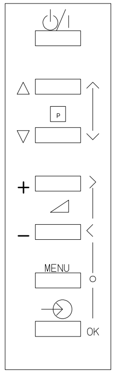

CV122
OPEN
DV121
OPEN
DV122
OPEN
SCREW_GND
TO U03A AV_TERMINAL [1] CONNECTOR (PE0250)
P101B → P101A
P101B
OPEN
E3
V
L
R
3PJACK
PV60
L
M
R
RV270
OPEN
CV70
330p
LV22
CHIP-INDUCTOR
-2R2MMHJ
CV71
330p
RV10
SHORT
RV129
100
RV123
1/10W 75
DV120
OPEN
RC12
820
CC13
B1000p
CC12
B1000p
RC11
820
CC14
B1000p
CC11
B1000p
S-SW_E2
GND
V_E2
GND
L_FRONT_CS
L_CS
TUNER GND (2mm)
R_FRONT_CS
R_CS
TUNER GND (2mm)
PV25A
PLUG 16P JST CZ
1 S-SW_E3
2 GND
3 V_E3
4 GND
5 L_FRONT_CS
6 R_FRONT_CS
7 GND
8 L_CS
9 R_CS
10 TUNER GND (2mm)
11 NC
12 NC
13 R_HP
14 L_HP
15 GND
16 DET_HP
TO U03A AV_TERMINAL
[1] CONNECTOR (PE0250)
PV25A → PV25B
HP
CY650
OPEN
D663
OPEN
D662
OPEN
SCREW_GND
P661
EARPHONE J D3.5
R696
1/8W220
R697
1/8W220
R698
1/8W220
R699
1/8W220
C604
B50V0.01
C605
B50V0.01
DET_HP
GND
L_HP
R_HP

U03B FRONT_AV [11] FRONT-AV (PE0250)

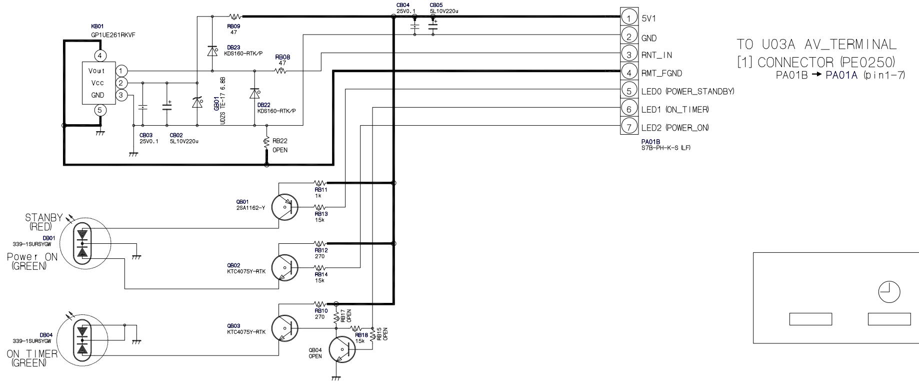
U03D

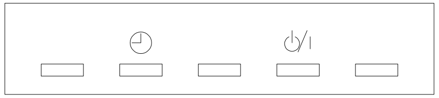
for C3000D/P SERIES


TO U03A AV_TERMINAL [1] CONNECTOR (PE0250)
PA01C → PA01A (pin8-12)
KEY_FGND
ADC_IN1
GND
ADC_IN2
POWER_KEY
PA01C
B5B-PH-K-S
5 4 3 2 1
VIDEO
SA06
SWITCH PUSH 1C1P
MENU
SA05
SWITCH PUSH 1C1P
VOL-DOWN
SA04
SWITCH PUSH 1C1P
VOL-UP
SA03
SWITCH PUSH 1C1P
CH-DOWN
SA02
SWITCH PUSH 1C1P
CH-UP
SA01
SWITCH PUSH 1C1P
POWER
SA07
SWITCH PUSH 1C1P
RA71
68k
RA72
22K
RA73
10k
RA74
SHORT
GA01
UDZS TE-17 6.8B
RA77
10k
RA78
SHORT
RA79
SHORT
GA02
UDZS TE-17 6.8B
GA03
UDZS TE-17 6.8B

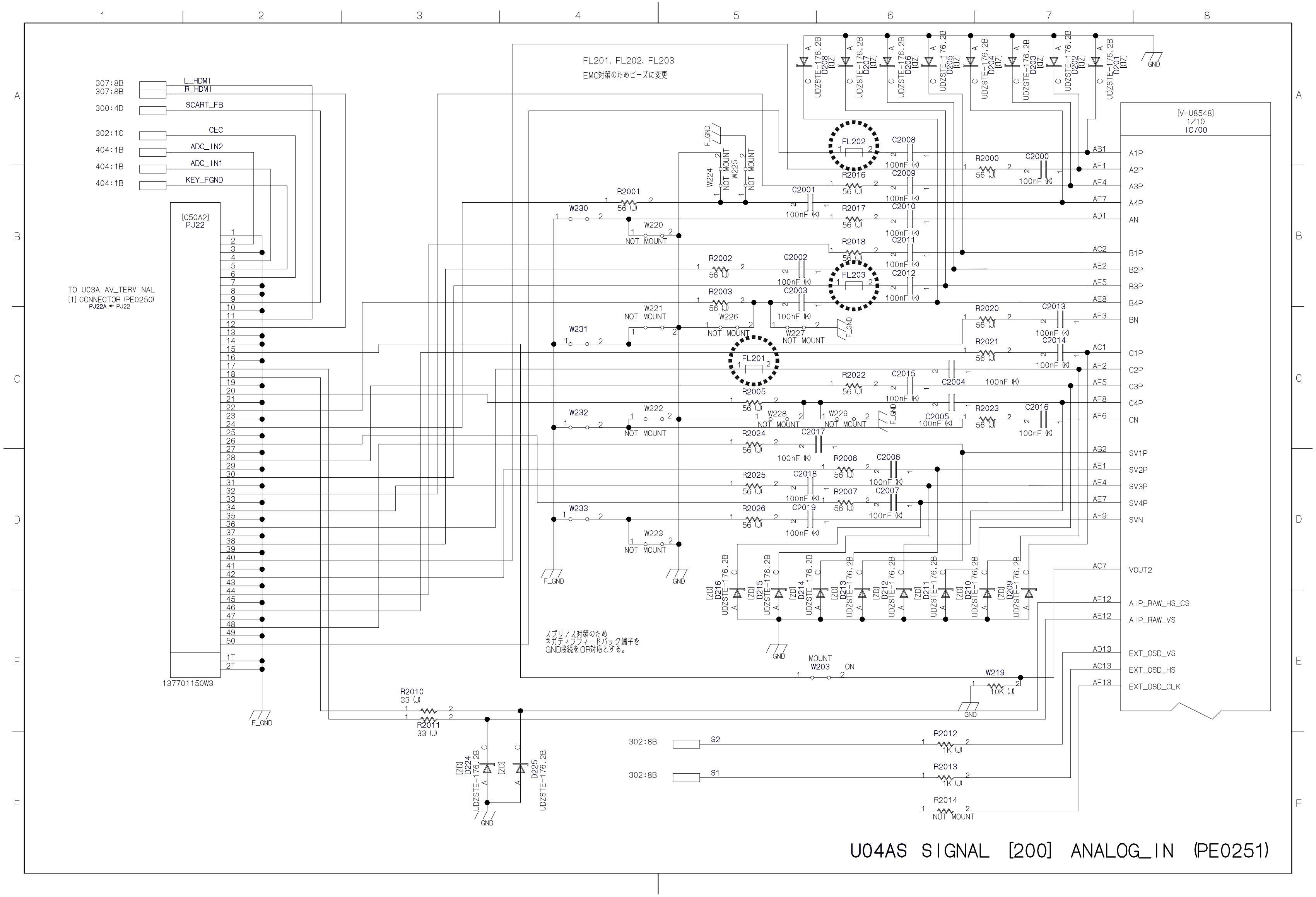


U03C

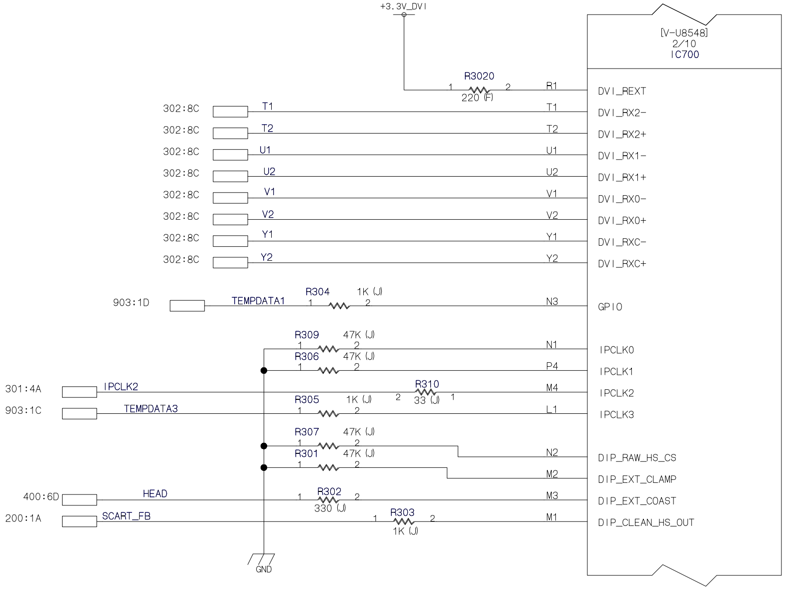

KB01
GP1UE261RKVF
Vout
Vcc
GND
1
2
3
4
5
RB09
47
DB23
KDS160-RTK/P
RB08
47
GB01
UDZS TE-17 6.8B
DB22
KDS160-RTK/P
CB03
25V0.1
CB02
5L10V220u
RB22
OPEN
CB04
25V0.1
CB05
5L10V220u
1 5V1
2 GND
3 RNT_IN
4 RMT_FGND
5 LED0 (POWER_STANDBY)
6 LED1 (ON_TIMER)
7 LED2 (POWER_ON)
PA01B
S7B-PH-K-S (LF)
TO U03A AV_TERMINAL
[1] CONNECTOR (PE0250)
PA01B → PA01A (pin1-7)
QB01
2SA1162-Y
RB11
1k
RB13
15k
STANBY
(RED)
DB01
339-1SURSYGW
Power ON
(GREEN)
QB02
KTC4075Y-RTK
RB12
270
RB14
15k
QB03
KTC4075Y-RTK
RB10
270
RB17
OPEN
RB18
15k
RB15
OPEN
QB04
OPEN
DB04
339-1SURSYGW
ON TIMER
(GREEN)



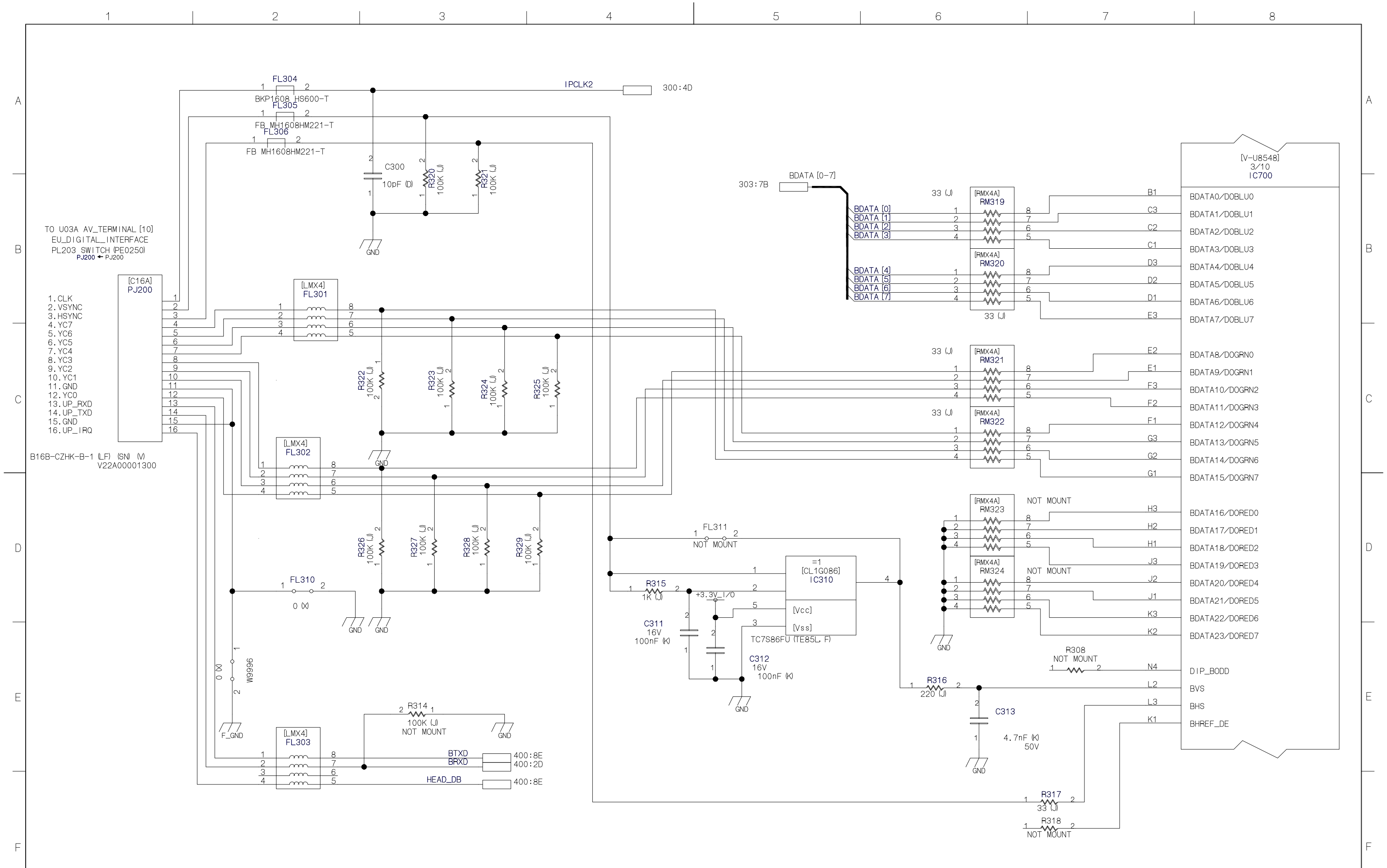
U03C/D LED/KEY [12] KEY & LED (PE0250)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
FL201、FL202、FL203
EMC対策のためビーズに変更
スプリアス対策のため
ネガティブフィードバック端子を
GND接続をOR対応とする。
307:8B
307:8B
300:4D
302:1C
404:1B
404:1B
404:1B
L_HDMI
R_HDMI
SCART_FB
CEC
ADC_IN2
ADC_IN1
KEY_FGND
[C50A2]
PJ22
TO U03A AV_TERMINAL
[1] CONNECTOR (PE0250)
PJ22A ← PJ22
1T
2T
137701150W3
F_GND
GND
W230
W231
W232
W233
W220
W221
W222
W223
W224
W225
W226
W227
W228
W229
NOT MOUNT
R2001
R2002
R2003
R2005
R2024
R2025
R2026
R2016
R2017
R2018
R2022
R2006
R2007
R2000
R2020
R2021
R2023
56 (J)
C2001
C2002
C2003
C2004
C2005
C2008
C2009
C2010
C2011
C2012
C2013
C2014
C2015
C2016
C2017
C2018
C2019
C2000
C2006
C2007
100nF (K)
FL201
FL202
FL203
D201
D202
D203
D204
D205
D206
D207
D208
D209
D210
D211
D212
D213
D214
D215
D216
[DZ]
[ZD]
UDZSTE-176.2B
[V-U8548]
1/10
IC700
AB1
AF1
AF4
AF7
AD1
AC2
AE2
AE5
AE8
AF3
AC1
AF2
AF5
AF8
AF6
AB2
AE1
AE4
AE7
AF9
AC7
AF12
AE12
AD13
AC13
AF13
A1P
A2P
A3P
A4P
AN
B1P
B2P
B3P
B4P
BN
C1P
C2P
C3P
C4P
CN
SV1P
SV2P
SV3P
SV4P
SVN
VOUT2
AIP_RAW_HS_CS
AIP_RAW_VS
EXT_OSD_VS
EXT_OSD_HS
EXT_OSD_CLK
MOUNT
W203
ON
W219
10K (J)
R2010
R2011
33 (J)
D224
D225
302:8B
302:8B
S2
S1
R2012
R2013
1K (J)
R2014
NOT MOUNT

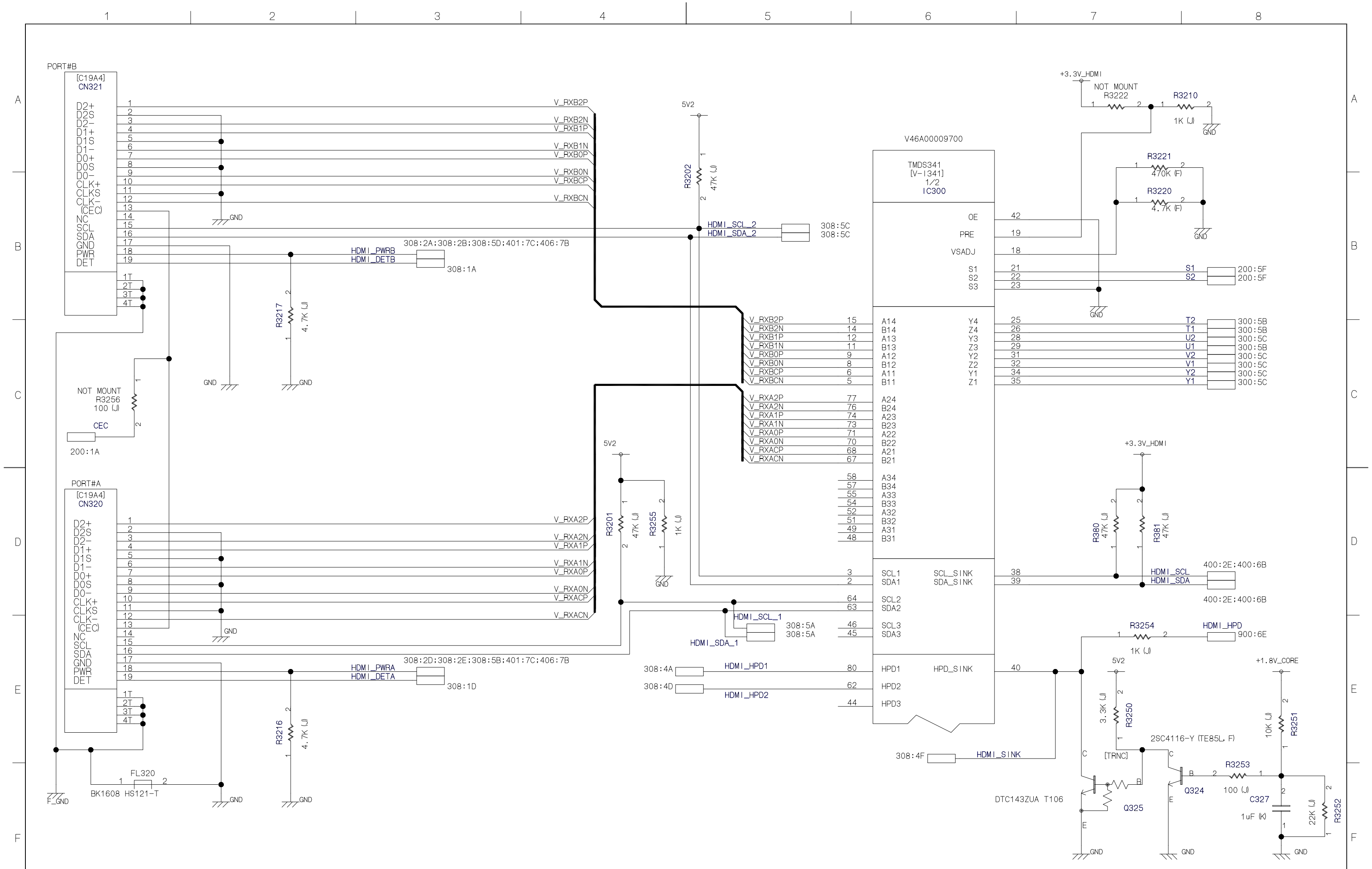
U04AS SIGNAL [200] ANALOG_IN (PE0251)


+3.3V_DVI
[V-U8548]
2/10
IC700
R3020
1
2
220 (F)
R1
DVI_REXT
302:8C
T1
DVI_RX2-
302:8C
T2
DVI_RX2+
302:8C
U1
DVI_RX1-
302:8C
U2
DVI_RX1+
302:8C
V1
DVI_RX0-
302:8C
V2
DVI_RX0+
302:8C
Y1
DVI_RXC-
302:8C
Y2
DVI_RXC+
903:1D
TEMPDATA1
R304
1K (J)
N3
GPIO
R309
47K (J)
N1
IPCLK0
R306
47K (J)
P4
IPCLK1
301:4A
IPCLK2
R310
33 (J)
M4
IPCLK2
903:1C
TEMPDATA3
R305
1K (J)
L1
IPCLK3
R307
47K (J)
N2
DIP_RAW_HS_CS
R301
47K (J)
M2
DIP_EXT_CLAMP
400:6D
HEAD
R302
330 (J)
M3
DIP_EXT_COAST
200:1A
SCART_FB
R303
1K (J)
M1
DIP_CLEAN_HS_OUT
GND

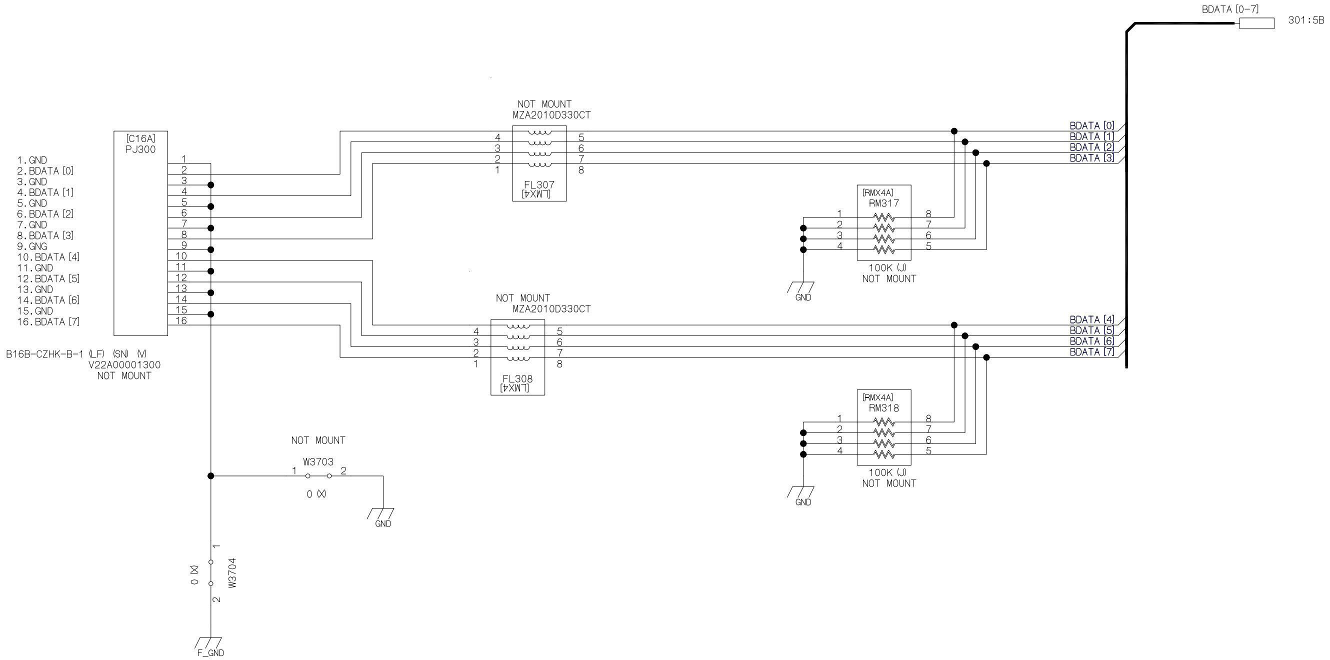
U04AS SIGNAL [300] HDMI TMDS-IN (PE0251)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
FL304
BKP1608 HS600-T
FL305
FB MH1608HM221-T
FL306
FB MH1608HM221-T
IPCLK2
300:4D
C300
10pF (D)
R320
100K (J)
R321
100K (J)
GND
TO U03A AV_TERMINAL [10]
EU_DIGITAL_INTERFACE
PL203 SWITCH (PE0250)
PJ200 ← PJ200
[C16A]
PJ200
1.CLK
2.VSYNC
3.HSYNC
4.YC7
5.YC6
6.YC5
7.YC4
8.YC3
9.YC2
10.YC1
11.GND
12.YC0
13.UP_RXD
14.UP_TXD
15.GND
16.UP_IRQ
B16B-CZHK-B-1 (LF) (SN) (V)
V22A00001300
[LMX4]
FL301
R322
100K (J)
R323
100K (J)
R324
100K (J)
R325
100K (J)
[LMX4]
FL302
R326
100K (J)
R327
100K (J)
R328
100K (J)
R329
100K (J)
FL310
0 (X)
W9996
0 (X)
F_GND
R314
100K (J)
NOT MOUNT
[LMX4]
FL303
BTXD
BRXD
HEAD_DB
400:8E
400:2D
400:8E
303:7B
BDATA [0-7]
BDATA [0]
BDATA [1]
BDATA [2]
BDATA [3]
BDATA [4]
BDATA [5]
BDATA [6]
BDATA [7]
33 (J)
[RMX4A]
RM319
[RMX4A]
RM320
[RMX4A]
RM321
[RMX4A]
RM322
[RMX4A]
RM323
NOT MOUNT
[RMX4A]
RM324
NOT MOUNT
[V-U8548]
3/10
IC700
B1 BDATA0/DOBLU0
C3 BDATA1/DOBLU1
C2 BDATA2/DOBLU2
C1 BDATA3/DOBLU3
D3 BDATA4/DOBLU4
D2 BDATA5/DOBLU5
D1 BDATA6/DOBLU6
E3 BDATA7/DOBLU7
E2 BDATA8/DOGRN0
E1 BDATA9/DOGRN1
F3 BDATA10/DOGRN2
F2 BDATA11/DOGRN3
F1 BDATA12/DOGRN4
G3 BDATA13/DOGRN5
G2 BDATA14/DOGRN6
G1 BDATA15/DOGRN7
H3 BDATA16/DORED0
H2 BDATA17/DORED1
H1 BDATA18/DORED2
J3 BDATA19/DORED3
J2 BDATA20/DORED4
J1 BDATA21/DORED5
K3 BDATA22/DORED6
K2 BDATA23/DORED7
N4 DIP_BODD
L2 BVS
L3 BHS
K1 BHREF_DE
FL311
NOT MOUNT
=1
[CL1G086]
IC310
[Vcc]
[Vss]
TC7S86FU (TE85L, F)
R315
1K (J)
+3.3V_I/O
C311
16V
100nF (K)
C312
16V
100nF (K)
R308
NOT MOUNT
R316
220 (J)
C313
4.7nF (K)
50V
R317
33 (J)
R318
NOT MOUNT

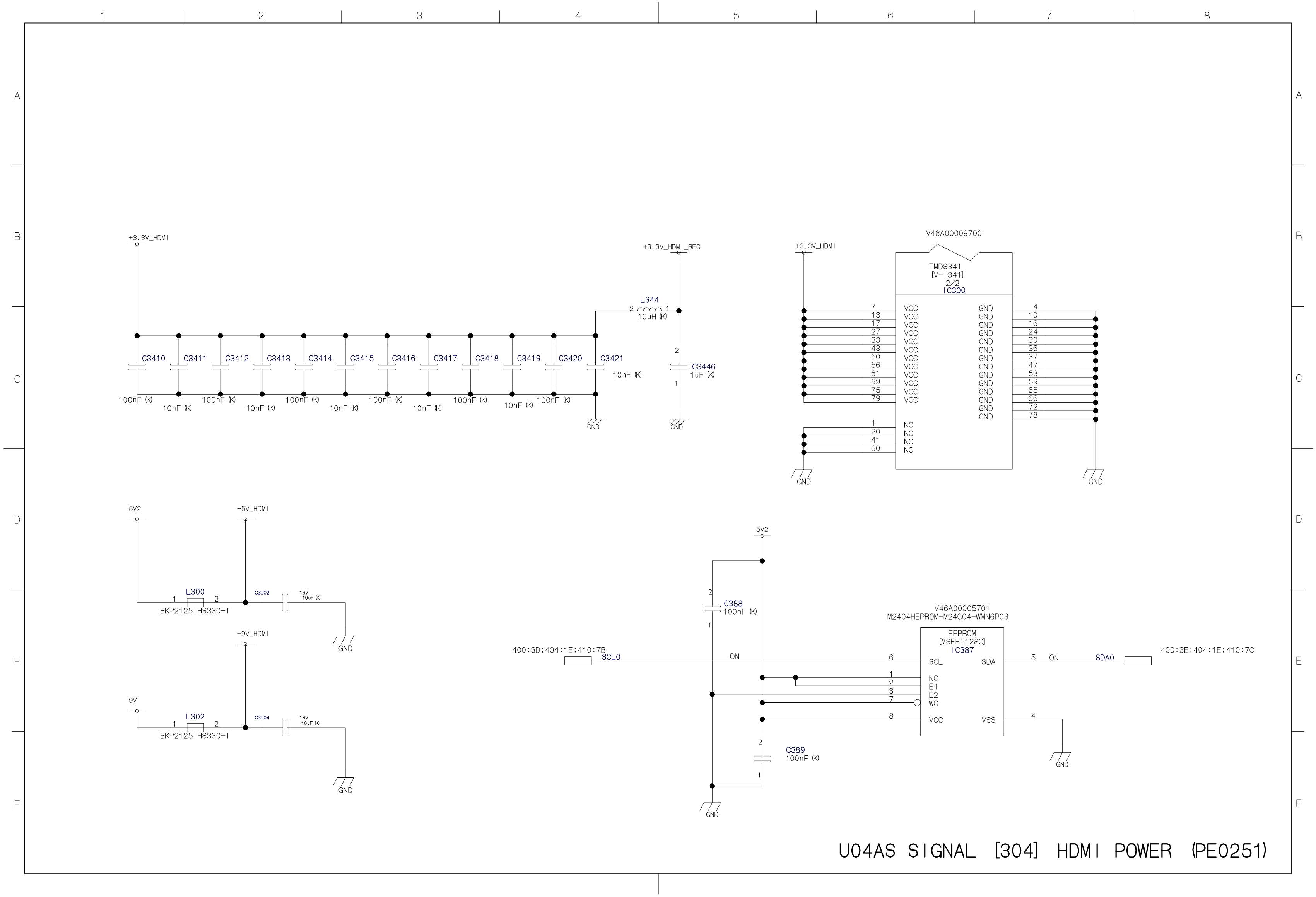
U04AS SIGNAL [301] DIGITAL_IN_B (PE0251)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
PORT#B
[C19A4]
CN321
D2+
D2S
D2-
D1+
D1S
D1-
D0+
D0S
D0-
CLK+
CLKS
CLK-
(CEC)
NC
SCL
SDA
GND
PWR
DET
1T
2T
3T
4T
V_RXB2P
V_RXB2N
V_RXB1P
V_RXB1N
V_RXB0P
V_RXB0N
V_RXBCP
V_RXBCN
GND
5V2
R3202
47K (J)
HDMI_SCL_2
HDMI_SDA_2
308:5C
308:5C
308:2A:308:2B:308:5D:401:7C:406:7B
HDMI_PWRB
HDMI_DETB
308:1A
R3217
4.7K (J)
NOT MOUNT
R3256
100 (J)
CEC
200:1A
PORT#A
[C19A4]
CN320
V_RXA2P
V_RXA2N
V_RXA1P
V_RXA1N
V_RXA0P
V_RXA0N
V_RXACP
V_RXACN
R3201
47K (J)
R3255
1K (J)
308:2D:308:2E:308:5B:401:7C:406:7B
HDMI_PWRA
HDMI_DETA
308:1D
R3216
4.7K (J)
FL320
BK1608 HS121-T
F_GND
V46A00009700
TMDS341
[V-I341]
1/2
IC300
OE
PRE
VSADJ
S1
S2
S3
A14
B14
A13
B13
A12
B12
A11
B11
A24
B24
A23
B23
A22
B22
A21
B21
A34
B34
A33
B33
A32
B32
A31
B31
Y4
Z4
Y3
Z3
Y2
Z2
Y1
Z1
SCL1
SDA1
SCL_SINK
SDA_SINK
SCL2
SDA2
SCL3
SDA3
HPD1
HPD2
HPD3
HPD_SINK
+3.3V_HDMI
NOT MOUNT
R3222
R3210
1K (J)
R3221
470K (F)
R3220
4.7K (F)
S1
S2
200:5F
200:5F
T2
T1
U2
U1
V2
V1
Y2
Y1
300:5B
300:5B
300:5C
300:5B
300:5C
300:5C
300:5C
300:5C
R380
47K (J)
R381
47K (J)
HDMI_SCL
HDMI_SDA
400:2E:400:6B
400:2E:400:6B
HDMI_SCL_1
HDMI_SDA_1
308:5A
308:5A
R3254
1K (J)
HDMI_HPD
900:6E
308:4A
HDMI_HPD1
308:4D
HDMI_HPD2
308:4F
HDMI_SINK
5V2
R3250
3.3K (J)
[TRNC]
2SC4116-Y (TE85L, F)
DTC143ZUA T106
Q325
Q324
R3253
100 (J)
+1.8V_CORE
R3251
10K (J)
C327
1uF (K)
R3252
22K (J)

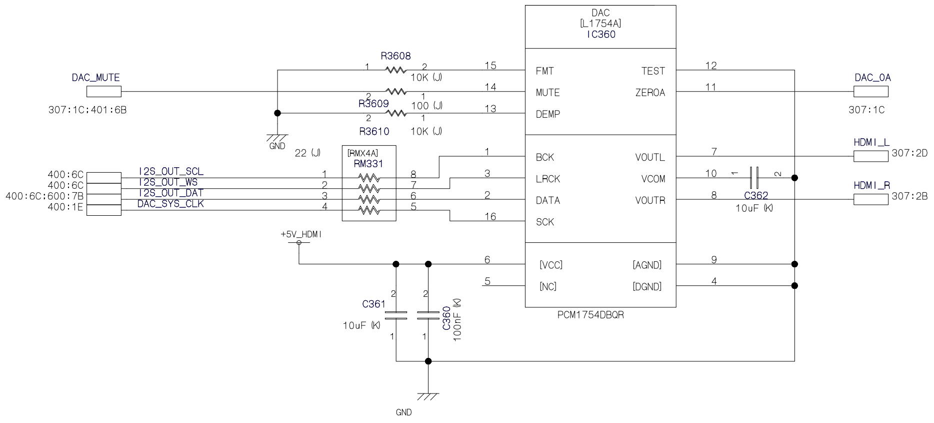
U04AS SIGNAL [302] HDMI (Link, I2C) (PE0251)


BDATA [0-7]
301:5B
NOT MOUNT
MZA2010D330CT
FL307
[LMX4]
[C16A]
PJ300
1.GND
2.BDATA [0]
3.GND
4.BDATA [1]
5.GND
6.BDATA [2]
7.GND
8.BDATA [3]
9.GNG
10.BDATA [4]
11.GND
12.BDATA [5]
13.GND
14.BDATA [6]
15.GND
16.BDATA [7]
B16B-CZHK-B-1 (LF) (SN) (V)
V22A00001300
NOT MOUNT
BDATA [0]
BDATA [1]
BDATA [2]
BDATA [3]
[RMX4A]
RM317
100K (J)
NOT MOUNT
GND
NOT MOUNT
MZA2010D330CT
FL308
[LMX4]
BDATA [4]
BDATA [5]
BDATA [6]
BDATA [7]
[RMX4A]
RM318
100K (J)
NOT MOUNT
GND
NOT MOUNT
W3703
0 (X)
GND
0 (X)
W3704
F_GND

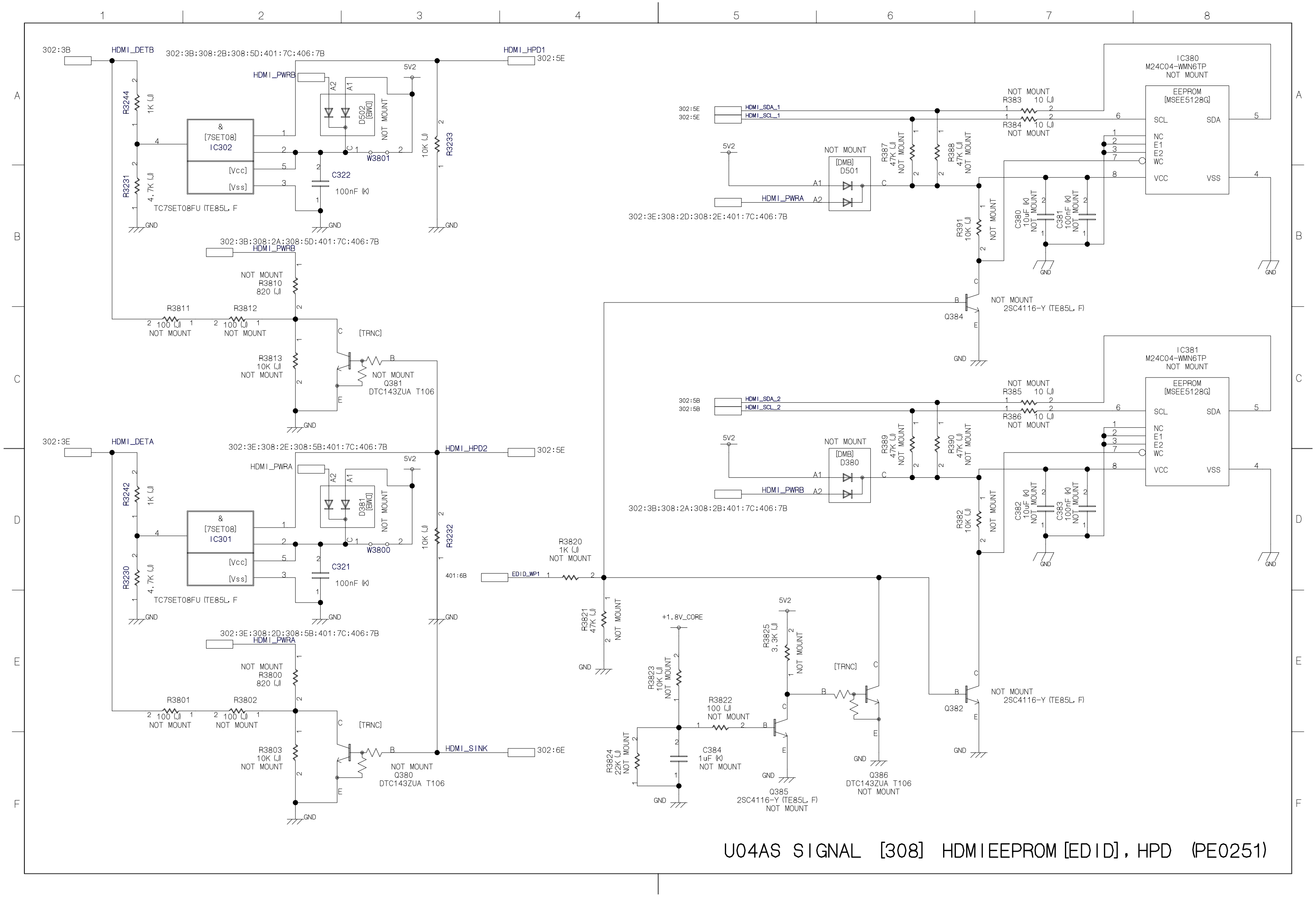
U04AS SIGNAL [303] DIP for ASIA DB (PE0251)


+3.3V_HDMI
C3410
C3411
C3412
C3413
C3414
C3415
C3416
C3417
C3418
C3419
C3420
C3421
100nF (K)
10nF (K)
L344
10uH (K)
+3.3V_HDMI_REG
C3446
1uF (K)
GND
V46A00009700
TMDS341
[V-1341]
2/2
IC300
VCC
GND
NC
5V2
+5V_HDMI
L300
BKP2125 HS330-T
C3002
16V
10uF (K)
+9V_HDMI
9V
L302
C3004
C388
100nF (K)
C389
V46A00005701
M2404HEPROM-M24C04-WMN6P03
EEPROM
[MSEE5128G]
IC387
400:3D:404:1E:410:7B
SCL0
ON
SCL
E1
E2
WC
VSS
SDA
SDA0
400:3E:404:1E:410:7C
1
2
3
4
5
6
7
8
A
B
C
D
E
F

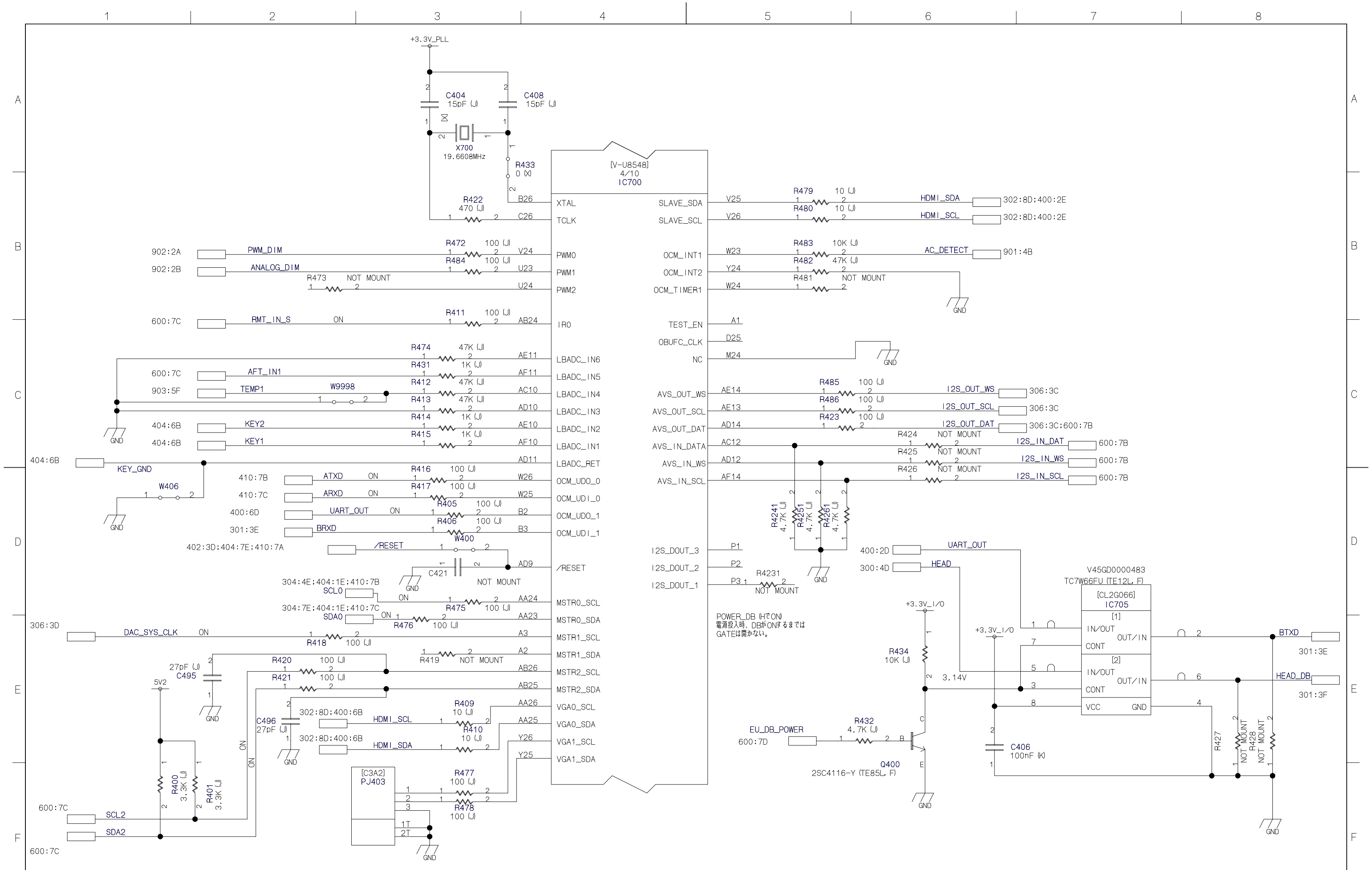
U04AS SIGNAL [304] HDMI POWER (PE0251)


DAC
[L1754A]
IC360
PCM1754DBQR
FMT
MUTE
DEMP
BCK
LRCK
DATA
SCK
[VCC]
[NC]
TEST
ZEROA
VOUTL
VCOM
VOUTR
[AGND]
[DGND]
R3608
10K (J)
R3609
100 (J)
R3610
10K (J)
DAC_MUTE
307:1C;401:6B
GND
22 (J)
[RMX4A]
RM331
400:6C
400:6C
400:6C;600:7B
400:1E
I2S_OUT_SCL
I2S_OUT_WS
I2S_OUT_DAT
DAC_SYS_CLK
+5V_HDMI
C361
10uF (K)
C360
100nF (K)
GND
DAC_0A
307:1C
HDMI_L
307:2D
HDMI_R
307:2B
C362
10uF (K)

U04AS SIGNAL [306] HDMI_AUDIO_DAC (PE0251)


302:3B
HDMI_DETB
302:3B:308:2B:308:5D:401:7C:406:7B
HDMI_HPD1
302:5E
HDMI_PWRB
5V2
R3244 1K (J)
& [7SET08] IC302
[Vcc]
[Vss]
D502 [BWD] NOT MOUNT
A2
A1
C322 100nF (K)
W3801
10K (J) R3233
R3231 4.7K (J)
TC7SET08FU (TE85L, F
GND
302:3B:308:2A:308:5D:401:7C:406:7B
HDMI_PWRB
NOT MOUNT R3810 820 (J)
R3811 100 (J) NOT MOUNT
R3812 100 (J) NOT MOUNT
[TRNC]
R3813 10K (J) NOT MOUNT
NOT MOUNT Q381 DTC143ZUA T106
302:3E
HDMI_DETA
302:3E:308:2E:308:5B:401:7C:406:7B
HDMI_HPD2
302:5E
HDMI_PWRA
R3242 1K (J)
& [7SET08] IC301
D381 [BWD] NOT MOUNT
C321 100nF (K)
W3800
10K (J) R3232
R3230 4.7K (J)
TC7SET08FU (TE85L, F
302:3E:308:2D:308:5B:401:7C:406:7B
HDMI_PWRA
NOT MOUNT R3800 820 (J)
R3801 100 (J) NOT MOUNT
R3802 100 (J) NOT MOUNT
R3803 10K (J) NOT MOUNT
NOT MOUNT Q380 DTC143ZUA T106
HDMI_SINK
302:6E
401:6B
EDID_WP1
R3820 1K (J) NOT MOUNT
R3821 47K (J) NOT MOUNT
+1.8V_CORE
R3823 10K (J) NOT MOUNT
R3822 100 (J) NOT MOUNT
R3824 22K (J) NOT MOUNT
C384 1uF (K) NOT MOUNT
R3825 3.3K (J) NOT MOUNT
Q385 2SC4116-Y (TE85L, F) NOT MOUNT
Q386 DTC143ZUA T106 NOT MOUNT
302:5E
HDMI_SDA_1
HDMI_SCL_1
IC380 M24C04-WMN6TP NOT MOUNT
EEPROM [MSEE5128G]
NOT MOUNT R383 10 (J)
R384 10 (J) NOT MOUNT
SCL SDA NC E1 E2 WC VCC VSS
NOT MOUNT [DMB] D501
R387 47K (J) NOT MOUNT
R388 47K (J) NOT MOUNT
HDMI_PWRA
302:3E:308:2D:308:2E:401:7C:406:7B
R391 10K (J) NOT MOUNT
C380 10uF (K) NOT MOUNT
C381 100nF (K) NOT MOUNT
Q384 NOT MOUNT 2SC4116-Y (TE85L, F)
302:5B
HDMI_SDA_2
HDMI_SCL_2
IC381 M24C04-WMN6TP NOT MOUNT
NOT MOUNT R385 10 (J)
R386 10 (J) NOT MOUNT
NOT MOUNT [DMB] D380
R389 47K (J) NOT MOUNT
R390 47K (J) NOT MOUNT
HDMI_PWRB
302:3B:308:2A:308:2B:401:7C:406:7B
R382 10K (J) NOT MOUNT
C382 10uF (K) NOT MOUNT
C383 100nF (K) NOT MOUNT
Q382 NOT MOUNT 2SC4116-Y (TE85L, F)
1 2 3 4 5 6 7 8
A B C D E F

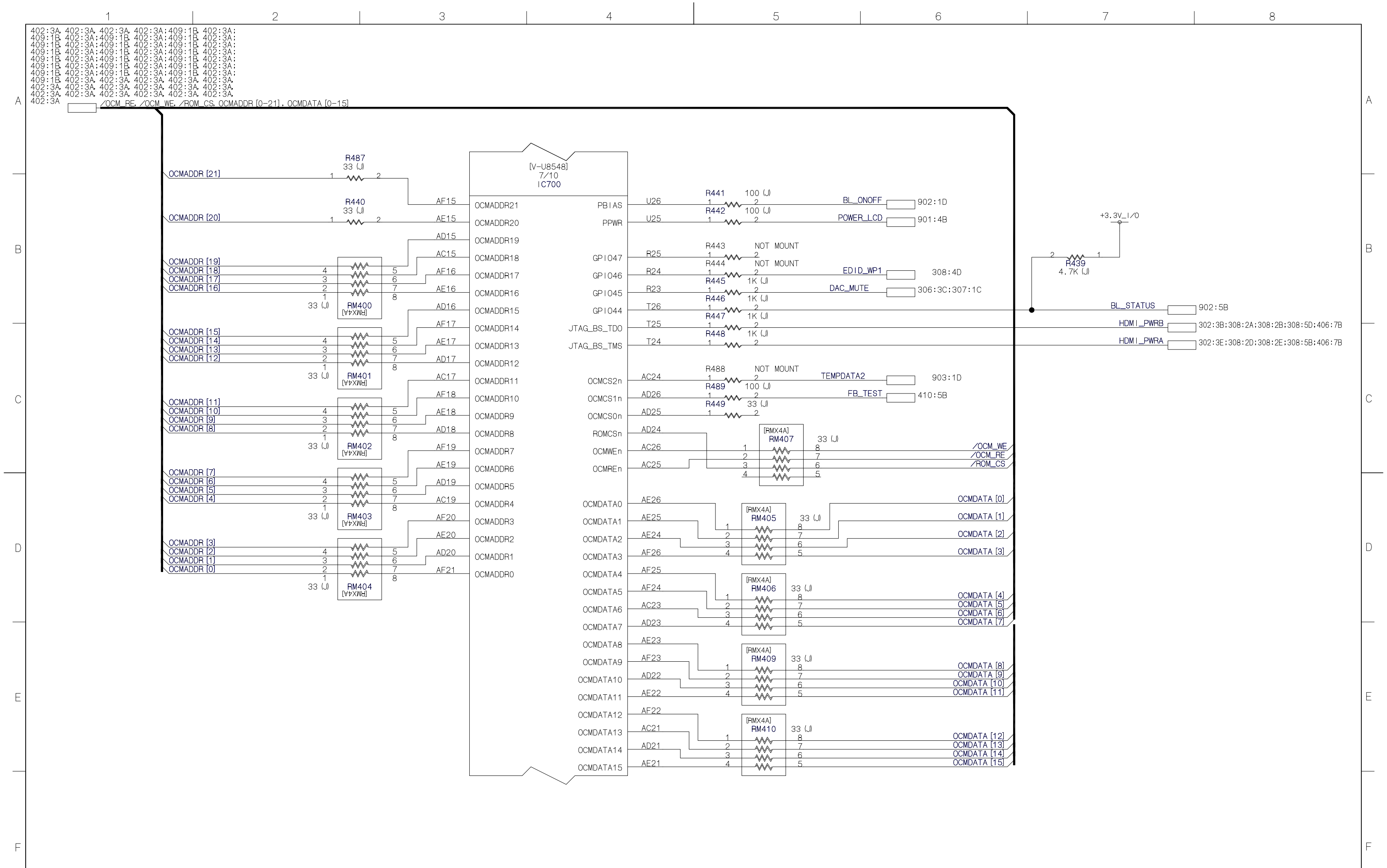
U04AS SIGNAL [308] HDMIEEPROM[EDID],HPD (PE0251)



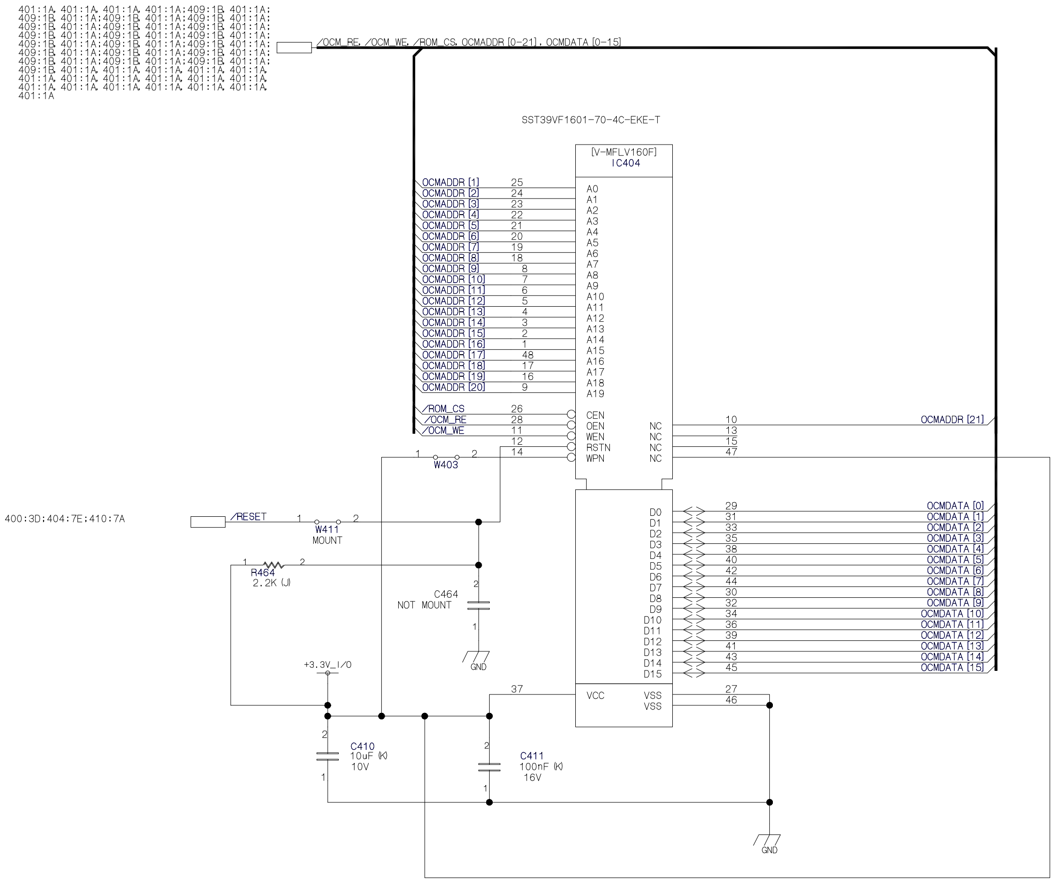
1
2
3
4
5
6
7
8
A
B
C
D
E
F
+3.3V_PLL
C404
15pF (J)
C408
15pF (J)
X700
19.6608MHz
R433
0 (X)
[V-U8548]
4/10
IC700
R422
470 (J)
B26
C26
XTAL
TCLK
SLAVE_SDA
SLAVE_SCL
V25
V26
R479
10 (J)
R480
10 (J)
HDMI_SDA
HDMI_SCL
302:8D:400:2E
902:2A
PWM_DIM
R472
100 (J)
V24
PWM0
902:2B
ANALOG_DIM
R484
100 (J)
U23
PWM1
R473
NOT MOUNT
U24
PWM2
OCM_INT1
OCM_INT2
OCM_TIMER1
W23
Y24
W24
R483
10K (J)
R482
47K (J)
R481
NOT MOUNT
AC_DETECT
901:4B
GND
600:7C
RMT_IN_S
ON
R411
100 (J)
AB24
IR0
TEST_EN
OBUFC_CLK
NC
A1
D25
M24
R474
47K (J)
AE11
LBADC_IN6
600:7C
AFT_IN1
R431
1K (J)
AF11
LBADC_IN5
903:5F
TEMP1
W9998
R412
47K (J)
AC10
LBADC_IN4
R413
47K (J)
AD10
LBADC_IN3
404:6B
KEY2
R414
1K (J)
AE10
LBADC_IN2
404:6B
KEY1
R415
1K (J)
AF10
LBADC_IN1
404:6B
KEY_GND
AD11
LBADC_RET
W406
AVS_OUT_WS
AVS_OUT_SCL
AVS_OUT_DAT
AVS_IN_DATA
AVS_IN_WS
AVS_IN_SCL
AE14
AE13
AD14
AC12
AD12
AF14
R485
100 (J)
R486
100 (J)
R423
100 (J)
R424
NOT MOUNT
R425
NOT MOUNT
R426
NOT MOUNT
I2S_OUT_WS
I2S_OUT_SCL
I2S_OUT_DAT
I2S_IN_DAT
I2S_IN_WS
I2S_IN_SCL
306:3C
306:3C
306:3C:600:7B
600:7B
600:7B
600:7B
R4241
4.7K (J)
R4251
4.7K (J)
R4261
4.7K (J)
410:7B
ATXD
ON
R416
100 (J)
W26
OCM_UDO_0
410:7C
ARXD
ON
R417
100 (J)
W25
OCM_UDI_0
400:6D
UART_OUT
ON
R405
100 (J)
B2
OCM_UDO_1
301:3E
BRXD
R406
100 (J)
B3
OCM_UDI_1
402:3D:404:7E:410:7A
/RESET
W400
AD9
/RESET
C421
NOT MOUNT
I2S_DOUT_3
I2S_DOUT_2
I2S_DOUT_1
P1
P2
P3
R4231
NOT MOUNT
400:2D
UART_OUT
300:4D
HEAD
304:4E:404:1E:410:7B
SCL0
ON
R475
100 (J)
AA24
MSTR0_SCL
304:7E:404:1E:410:7C
SDA0
ON
R476
100 (J)
AA23
MSTR0_SDA
306:3D
DAC_SYS_CLK
ON
R418
100 (J)
A3
MSTR1_SCL
R419
NOT MOUNT
A2
MSTR1_SDA
27pF (J)
C495
R420
100 (J)
AB26
MSTR2_SCL
5V2
R421
100 (J)
AB25
MSTR2_SDA
C496
27pF (J)
302:8D:400:6B
HDMI_SCL
R409
10 (J)
AA26
VGA0_SCL
R410
10 (J)
AA25
VGA0_SDA
302:8D:400:6B
HDMI_SDA
Y26
VGA1_SCL
Y25
VGA1_SDA
[C3A2]
PJ403
1
2
3
1T
2T
R477
100 (J)
R478
100 (J)
R400
3.3K (J)
R401
3.3K (J)
ON
ON
600:7C
SCL2
SDA2
600:7C
+3.3V_I/O
R434
10K (J)
3.14V
+3.3V_I/O
V45GD0000483
TC7W66FU (TE12L, F)
[CL2G066]
IC705
[1]
IN/OUT
CONT
OUT/IN
[2]
IN/OUT
CONT
OUT/IN
VCC
GND
BTXD
301:3E
HEAD_DB
301:3F
EU_DB_POWER
600:7D
R432
4.7K (J)
Q400
2SC4116-Y (TE85L, F)
C406
100nF (K)
R427
R428
NOT MOUNT
NOT MOUNT
GND

POWER_DB (HでON)
電源投入時、DBがONするまでは
GATEは開かない。

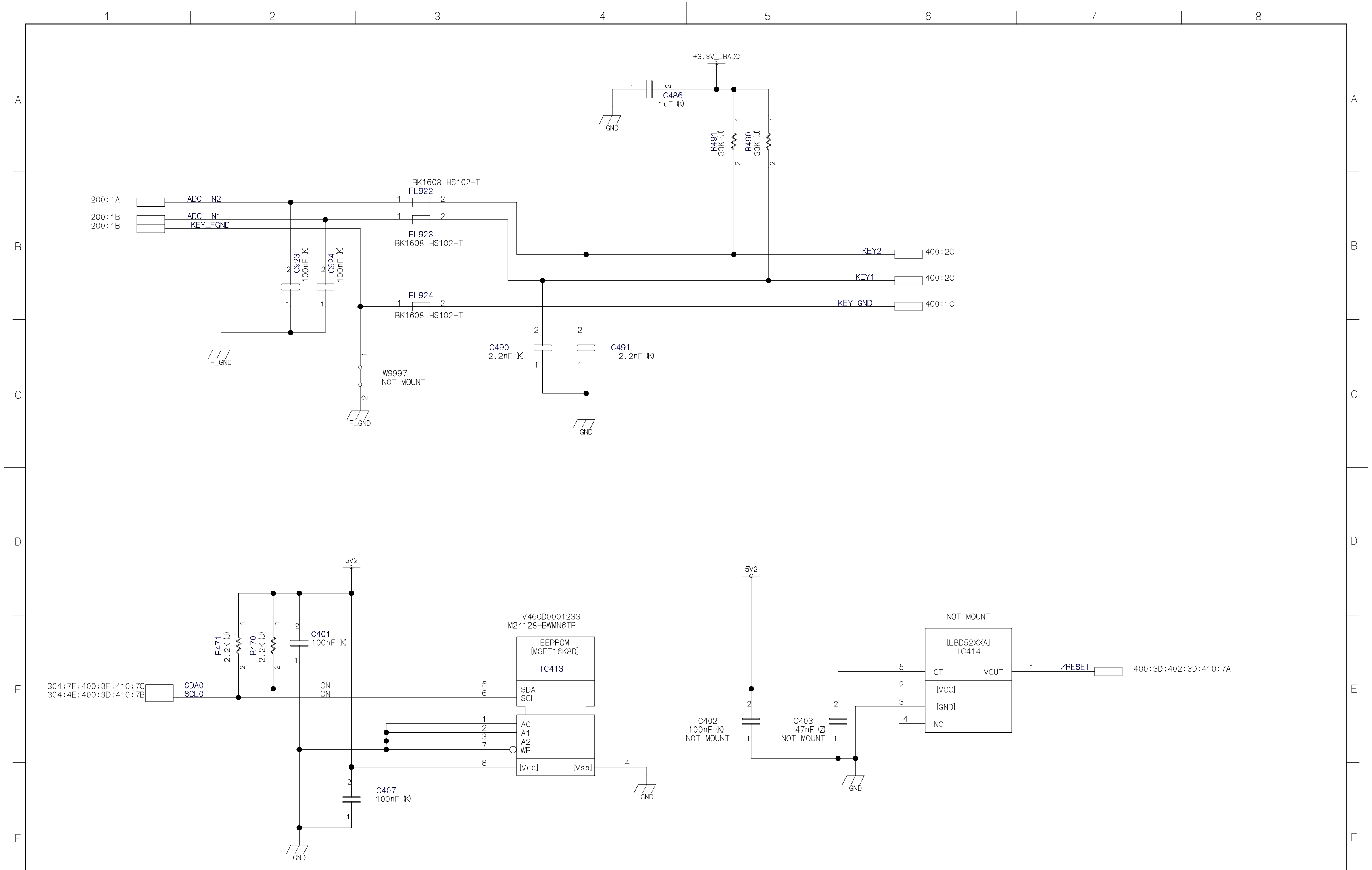
U04AS SIGNAL [400] MICRO I/O (PE0251)


/OCM_RE, /OCM_WE, /ROM_CS, OCMADDR [0-21], OCMDATA [0-15]
[V-U8548]
7/10
IC700
R487 33 (J)
R440 33 (J)
OCMADDR [21]
OCMADDR [20]
OCMADDR [19]
OCMADDR [18]
OCMADDR [17]
OCMADDR [16]
RM400 33 (J)
OCMADDR [15]
OCMADDR [14]
OCMADDR [13]
OCMADDR [12]
RM401 33 (J)
OCMADDR [11]
OCMADDR [10]
OCMADDR [9]
OCMADDR [8]
RM402 33 (J)
OCMADDR [7]
OCMADDR [6]
OCMADDR [5]
OCMADDR [4]
RM403 33 (J)
OCMADDR [3]
OCMADDR [2]
OCMADDR [1]
OCMADDR [0]
RM404 33 (J)
[RMX4A]
AF15 OCMADDR21
AE15 OCMADDR20
AD15 OCMADDR19
AC15 OCMADDR18
AF16 OCMADDR17
AE16 OCMADDR16
AD16 OCMADDR15
AF17 OCMADDR14
AE17 OCMADDR13
AD17 OCMADDR12
AC17 OCMADDR11
AF18 OCMADDR10
AE18 OCMADDR9
AD18 OCMADDR8
AF19 OCMADDR7
AE19 OCMADDR6
AD19 OCMADDR5
AC19 OCMADDR4
AF20 OCMADDR3
AE20 OCMADDR2
AD20 OCMADDR1
AF21 OCMADDR0
PBIAS U26
PPWR U25
GPIO47 R25
GPIO46 R24
GPIO45 R23
GPIO44 T26
JTAG_BS_TDO T25
JTAG_BS_TMS T24
OCMCS2n AC24
OCMCS1n AD26
OCMCS0n AD25
ROMCSn AD24
OCMWEn AC26
OCMREn AC25
OCMDATA0 AE26
OCMDATA1 AE25
OCMDATA2 AE24
OCMDATA3 AF26
OCMDATA4 AF25
OCMDATA5 AF24
OCMDATA6 AC23
OCMDATA7 AD23
OCMDATA8 AE23
OCMDATA9 AF23
OCMDATA10 AD22
OCMDATA11 AE22
OCMDATA12 AF22
OCMDATA13 AC21
OCMDATA14 AD21
OCMDATA15 AE21
R441 100 (J)
R442 100 (J)
R443 NOT MOUNT
R444 NOT MOUNT
R445 1K (J)
R446 1K (J)
R447 1K (J)
R448 1K (J)
R488 NOT MOUNT
R489 100 (J)
R449 33 (J)
BL_ONOFF 902:1D
POWER_LCD 901:4B
EDID_WP1 308:4D
DAC_MUTE 306:3C:307:1C
BL_STATUS 902:5B
HDMI_PWRB 302:3B:308:2A:308:2B:308:5D:406:7B
HDMI_PWRA 302:3E:308:2D:308:2E:308:5B:406:7B
TEMPDATA2 903:1D
FB_TEST 410:5B
+3.3V_I/O
R439 4.7K (J)
RM407 33 (J)
/OCM_WE
/OCM_RE
/ROM_CS
RM405 33 (J)
OCMDATA [0]
OCMDATA [1]
OCMDATA [2]
OCMDATA [3]
RM406 33 (J)
OCMDATA [4]
OCMDATA [5]
OCMDATA [6]
OCMDATA [7]
RM409 33 (J)
OCMDATA [8]
OCMDATA [9]
OCMDATA [10]
OCMDATA [11]
RM410 33 (J)
OCMDATA [12]
OCMDATA [13]
OCMDATA [14]
OCMDATA [15]
1
2
3
4
5
6
7
8
A
B
C
D
E
F

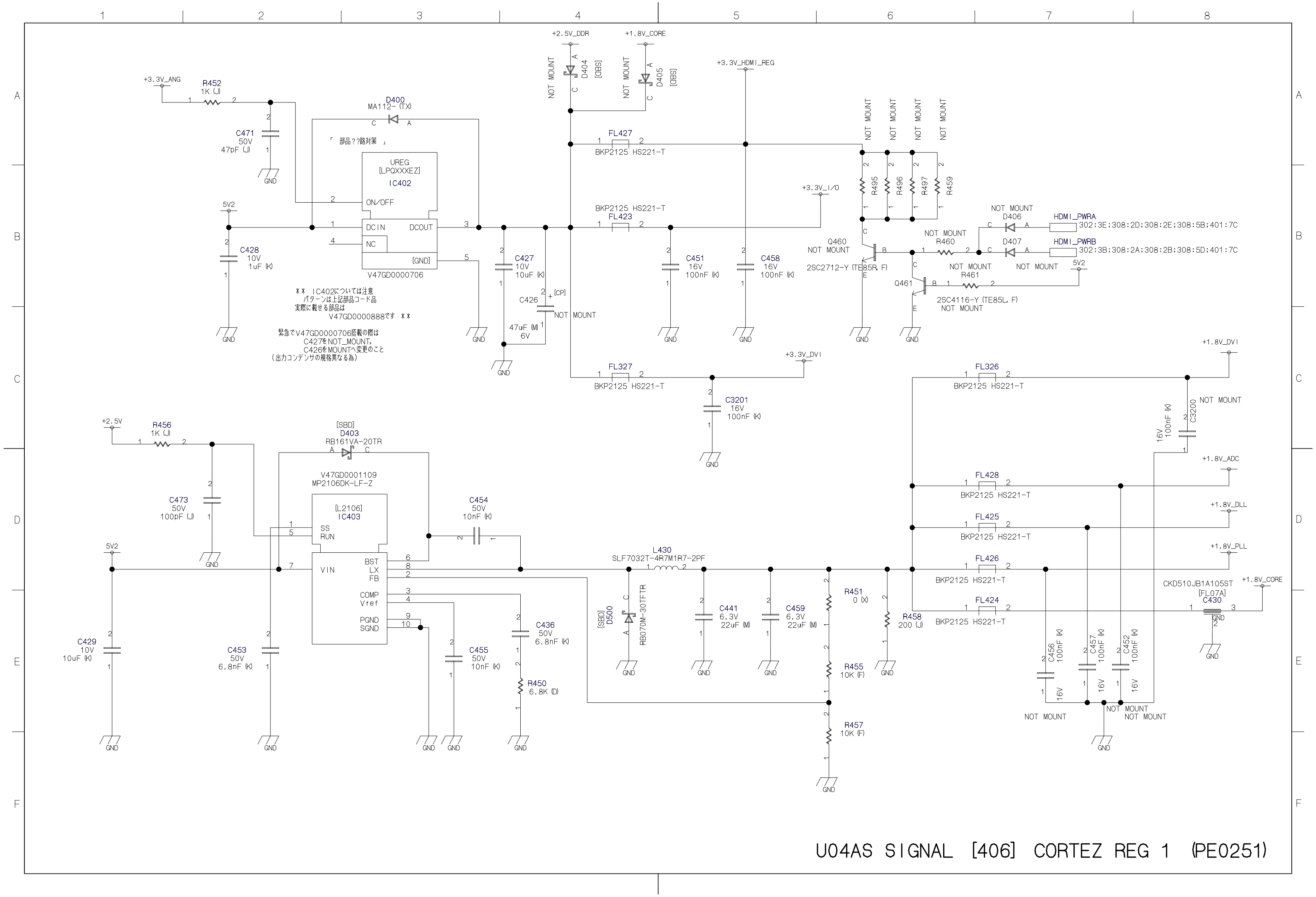
U04AS SIGNAL [401] OCM MEMORY I/F (PE0251)


401:1A, 401:1A, 401:1A, 401:1A;409:1B, 401:1A;
409:1B, 401:1A;409:1B, 401:1A;409:1B, 401:1A;
409:1B, 401:1A;409:1B, 401:1A;409:1B, 401:1A;
409:1B, 401:1A;409:1B, 401:1A;409:1B, 401:1A;
409:1B, 401:1A;409:1B, 401:1A;409:1B, 401:1A;
409:1B, 401:1A;409:1B, 401:1A;409:1B, 401:1A;
409:1B, 401:1A;409:1B, 401:1A;409:1B, 401:1A;
409:1B, 401:1A, 401:1A, 401:1A, 401:1A, 401:1A,
401:1A, 401:1A, 401:1A, 401:1A, 401:1A, 401:1A,
401:1A, 401:1A, 401:1A, 401:1A, 401:1A, 401:1A,
401:1A
/OCM_RE, /OCM_WE, /ROM_CS, OCMADDR [0-21], OCMDATA [0-15]
SST39VF1601-70-4C-EKE-T
[V-MFLV160F]
IC404
OCMADDR [1] 25 A0
OCMADDR [2] 24 A1
OCMADDR [3] 23 A2
OCMADDR [4] 22 A3
OCMADDR [5] 21 A4
OCMADDR [6] 20 A5
OCMADDR [7] 19 A6
OCMADDR [8] 18 A7
OCMADDR [9] 8 A8
OCMADDR [10] 7 A9
OCMADDR [11] 6 A10
OCMADDR [12] 5 A11
OCMADDR [13] 4 A12
OCMADDR [14] 3 A13
OCMADDR [15] 2 A14
OCMADDR [16] 1 A15
OCMADDR [17] 48 A16
OCMADDR [18] 17 A17
OCMADDR [19] 16 A18
OCMADDR [20] 9 A19
/ROM_CS 26 CEN
/OCM_RE 28 OEN
/OCM_WE 11 WEN
12 RSTN
14 WPN
NC 10 OCMADDR [21]
NC 13
NC 15
NC 47
1 W403 2
400:3D;404:7E;410:7A
/RESET
1 W411 2
MOUNT
1 R464 2
2.2K (J)
C464
NOT MOUNT
2
1
GND
+3.3V_I/O
D0 29 OCMDATA [0]
D1 31 OCMDATA [1]
D2 33 OCMDATA [2]
D3 35 OCMDATA [3]
D4 38 OCMDATA [4]
D5 40 OCMDATA [5]
D6 42 OCMDATA [6]
D7 44 OCMDATA [7]
D8 30 OCMDATA [8]
D9 32 OCMDATA [9]
D10 34 OCMDATA [10]
D11 36 OCMDATA [11]
D12 39 OCMDATA [12]
D13 41 OCMDATA [13]
D14 43 OCMDATA [14]
D15 45 OCMDATA [15]
37 VCC
VSS 27
VSS 46
C410
10uF (K)
10V
C411
100nF (K)
16V
GND

U04AS SIGNAL [402] FLASH MEMORY (PE0251)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
+3.3V_LBADC
C486
1uF (K)
GND
R491
33K (J)
R490
33K (J)
200:1A
ADC_IN2
200:1B
ADC_IN1
200:1B
KEY_FGND
BK1608 HS102-T
FL922
FL923
BK1608 HS102-T
FL924
BK1608 HS102-T
C923
100nF (K)
C924
100nF (K)
KEY2
400:2C
KEY1
400:2C
KEY_GND
400:1C
F_GND
W9997
NOT MOUNT
F_GND
C490
2.2nF (K)
C491
2.2nF (K)
GND
5V2
R471
2.2K (J)
R470
2.2K (J)
C401
100nF (K)
V46GD0001233
M24128-BWMN6TP
EEPROM
[MSEE16K8D]
IC413
304:7E:400:3E:410:7C
SDA0
304:4E:400:3D:410:7B
SCL0
ON
ON
SDA
SCL
A0
A1
A2
WP
[Vcc]
[Vss]
GND
C407
100nF (K)
GND
5V2
NOT MOUNT
[LBD52XXA]
IC414
CT
VOUT
[VCC]
[GND]
NC
/RESET
400:3D:402:3D:410:7A
C402
100nF (K)
NOT MOUNT
C403
47nF (Z)
NOT MOUNT
GND

U04AS SIGNAL [404] E2P ROM OTHER (PE0251)

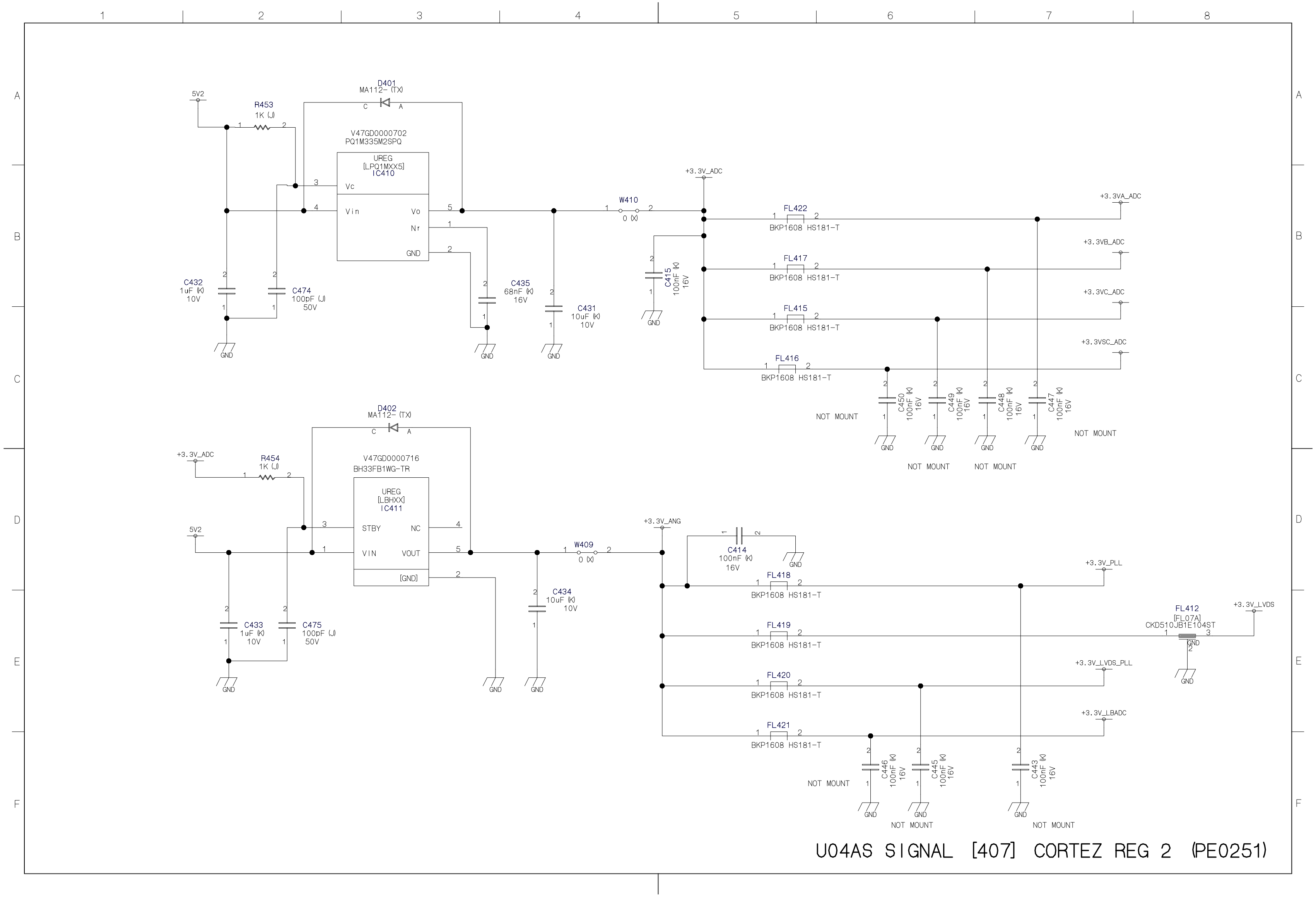

+3.3V_ANG
R452
1K (J)
C471
50V
47pF (J)
D400
MA112- (TX)
UREG
[LPQXXXEZ]
IC402
ON/OFF
DCIN
DCOUT
NC
[GND]
V47GD0000706
5V2
C428
10V
1uF (K)
C427
10V
10uF (K)
C426
[CP]
NOT MOUNT
47uF (M)
6V
+2.5V_DDR
+1.8V_CORE
D404
[DBS]
D405
[DBS]
NOT MOUNT
+3.3V_HDMI_REG
FL427
BKP2125 HS221-T
FL423
BKP2125 HS221-T
C451
16V
100nF (K)
C458
16V
100nF (K)
+3.3V_I/O
R495
R496
R497
R459
NOT MOUNT
Q460
NOT MOUNT
2SC2712-Y (TE85R, F)
R460
NOT MOUNT
D406
NOT MOUNT
D407
NOT MOUNT
HDMI_PWRA
302:3E;308:2D;308:2E;308:5B;401:7C
HDMI_PWRB
302:3B;308:2A;308:2B;308:5D;401:7C
Q461
R461
NOT MOUNT
2SC4116-Y (TE85L, F)
NOT MOUNT
5V2
FL327
BKP2125 HS221-T
+3.3V_DVI
C3201
16V
100nF (K)
+1.8V_DVI
FL326
BKP2125 HS221-T
C3200
16V
100nF (K)
NOT MOUNT
+2.5V
R456
1K (J)
C473
50V
100pF (J)
[SBD]
D403
RB161VA-20TR
V47GD0001109
MP2106DK-LF-Z
[L2106]
IC403
SS
RUN
VIN
BST
LX
FB
COMP
Vref
PGND
SGND
C454
50V
10nF (K)
5V2
C429
10V
10uF (K)
C453
50V
6.8nF (K)
C455
50V
10nF (K)
C436
50V
6.8nF (K)
R450
6.8K (D)
L430
SLF7032T-4R7M1R7-2PF
[SBD]
D500
RB070M-30TFTR
C441
6.3V
22uF (M)
C459
6.3V
22uF (M)
R451
0 (X)
R455
10K (F)
R457
10K (F)
R458
200 (J)
+1.8V_ADC
FL428
BKP2125 HS221-T
+1.8V_DLL
FL425
BKP2125 HS221-T
+1.8V_PLL
FL426
BKP2125 HS221-T
+1.8V_CORE
FL424
BKP2125 HS221-T
CKD510JB1A105ST
[FL07A]
C430
C456
100nF (K)
16V
C457
100nF (K)
16V
C452
100nF (K)
16V
NOT MOUNT
NOT MOUNT
NOT MOUNT
GND
1
2
3
4
5
6
7
8
A
B
C
D
E
F

「　部品？?路対策　」

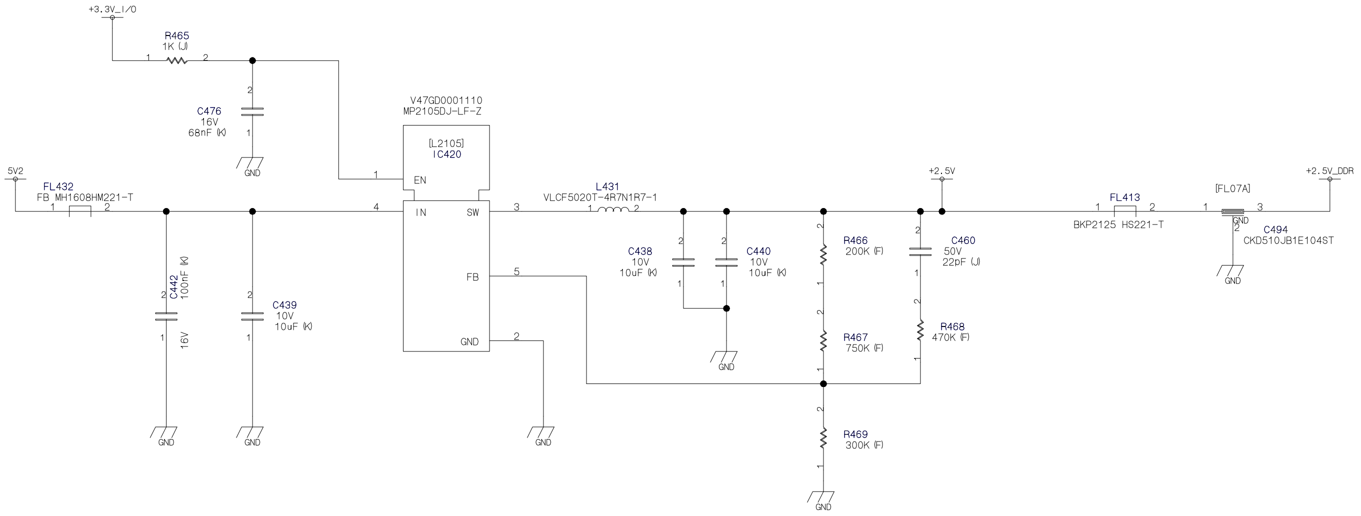
＊＊　IC402については注意
パターンは上記部品コード品
実際に載せる部品は
V47GD0000888です　＊＊

緊急でV47GD0000706搭載の際は
C427をNOT_MOUNT,
C426をMOUNTへ変更のこと
（出力コンデンサの規格異なる為）

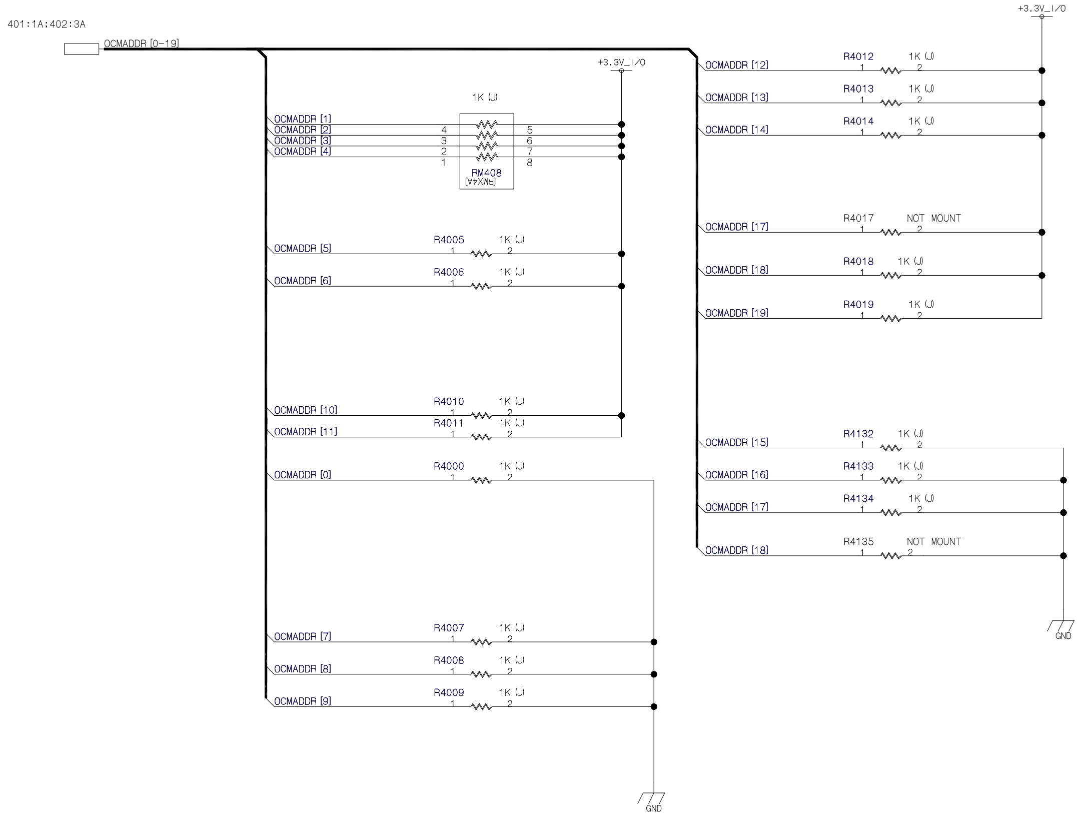
U04AS SIGNAL [406] CORTEZ REG 1 (PE0251)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
5V2
R453
1K (J)
D401
MA112- (TX)
C
A
V47GD0000702
PQ1M335M2SPQ
UREG
[LPQ1MXX5]
IC410
Vc
Vin
Vo
Nr
GND
C432
1uF (K)
10V
C474
100pF (J)
50V
C435
68nF (K)
16V
C431
10uF (K)
10V
GND
W410
0 (X)
+3.3V_ADC
C415
100nF (K)
16V
FL422
BKP1608 HS181-T
FL417
BKP1608 HS181-T
FL415
BKP1608 HS181-T
FL416
BKP1608 HS181-T
+3.3VA_ADC
+3.3VB_ADC
+3.3VC_ADC
+3.3VSC_ADC
C450
100nF (K)
16V
C449
100nF (K)
16V
C448
100nF (K)
16V
C447
100nF (K)
16V
NOT MOUNT
+3.3V_ADC
R454
1K (J)
D402
MA112- (TX)
V47GD0000716
BH33FB1WG-TR
UREG
[LBHXX]
IC411
STBY
NC
VIN
VOUT
[GND]
5V2
C433
1uF (K)
10V
C475
100pF (J)
50V
C434
10uF (K)
10V
W409
0 (X)
+3.3V_ANG
C414
100nF (K)
16V
FL418
BKP1608 HS181-T
FL419
BKP1608 HS181-T
FL420
BKP1608 HS181-T
FL421
BKP1608 HS181-T
+3.3V_PLL
FL412
[FL07A]
CKD510JB1E104ST
+3.3V_LVDS
+3.3V_LVDS_PLL
+3.3V_LBADC
C446
100nF (K)
16V
C445
100nF (K)
16V
C443
100nF (K)
16V
NOT MOUNT

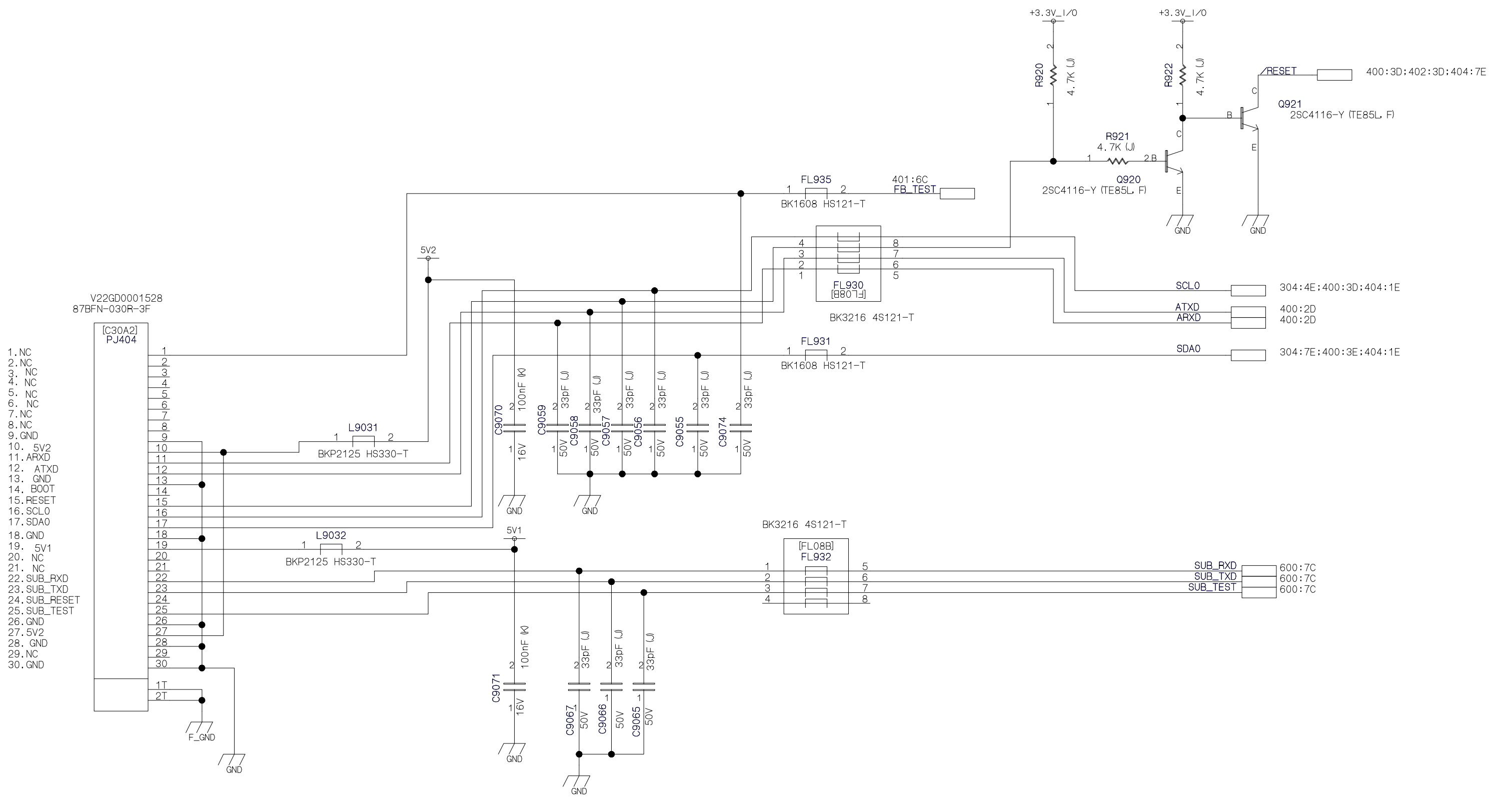
U04AS SIGNAL [407] CORTEZ REG 2 (PE0251)


+3.3V_I/O
R465
1K (J)
C476
16V
68nF (K)
V47GD0001110
MP2105DJ-LF-Z
[L2105]
IC420
EN
IN
SW
FB
GND
5V2
FL432
FB MH1608HM221-T
C442
100nF (K)
16V
C439
10V
10uF (K)
L431
VLCF5020T-4R7N1R7-1
C438
10V
10uF (K)
C440
10V
10uF (K)
R466
200K (F)
R467
750K (F)
R469
300K (F)
C460
50V
22pF (J)
R468
470K (F)
+2.5V
FL413
BKP2125 HS221-T
[FL07A]
C494
CKD510JB1E104ST
+2.5V_DDR
GND

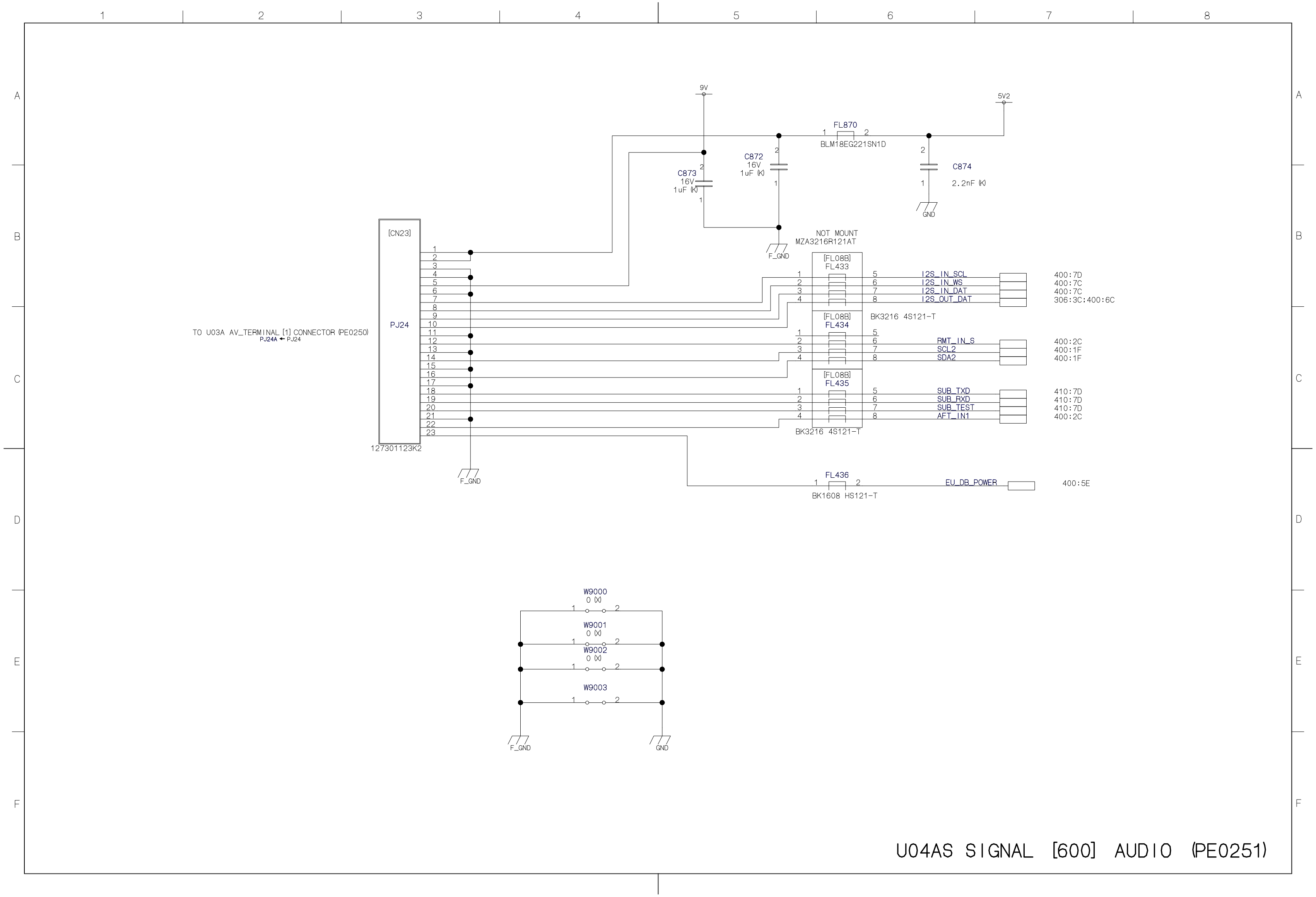
U04AS SIGNAL [408] CORTEZ REG 3 (PE0251)


401:1A:402:3A
OCMADDR [0-19]
+3.3V_I/O
1K (J)
OCMADDR [1]
OCMADDR [2]
OCMADDR [3]
OCMADDR [4]
4
3
2
1
5
6
7
8
RM408
[RMX4A]
OCMADDR [5]
R4005
1K (J)
OCMADDR [6]
R4006
1K (J)
OCMADDR [10]
R4010
1K (J)
OCMADDR [11]
R4011
1K (J)
OCMADDR [0]
R4000
1K (J)
OCMADDR [7]
R4007
1K (J)
OCMADDR [8]
R4008
1K (J)
OCMADDR [9]
R4009
1K (J)
GND
+3.3V_I/O
OCMADDR [12]
R4012
1K (J)
OCMADDR [13]
R4013
1K (J)
OCMADDR [14]
R4014
1K (J)
OCMADDR [17]
R4017
NOT MOUNT
OCMADDR [18]
R4018
1K (J)
OCMADDR [19]
R4019
1K (J)
OCMADDR [15]
R4132
1K (J)
OCMADDR [16]
R4133
1K (J)
OCMADDR [17]
R4134
1K (J)
OCMADDR [18]
R4135
NOT MOUNT
GND

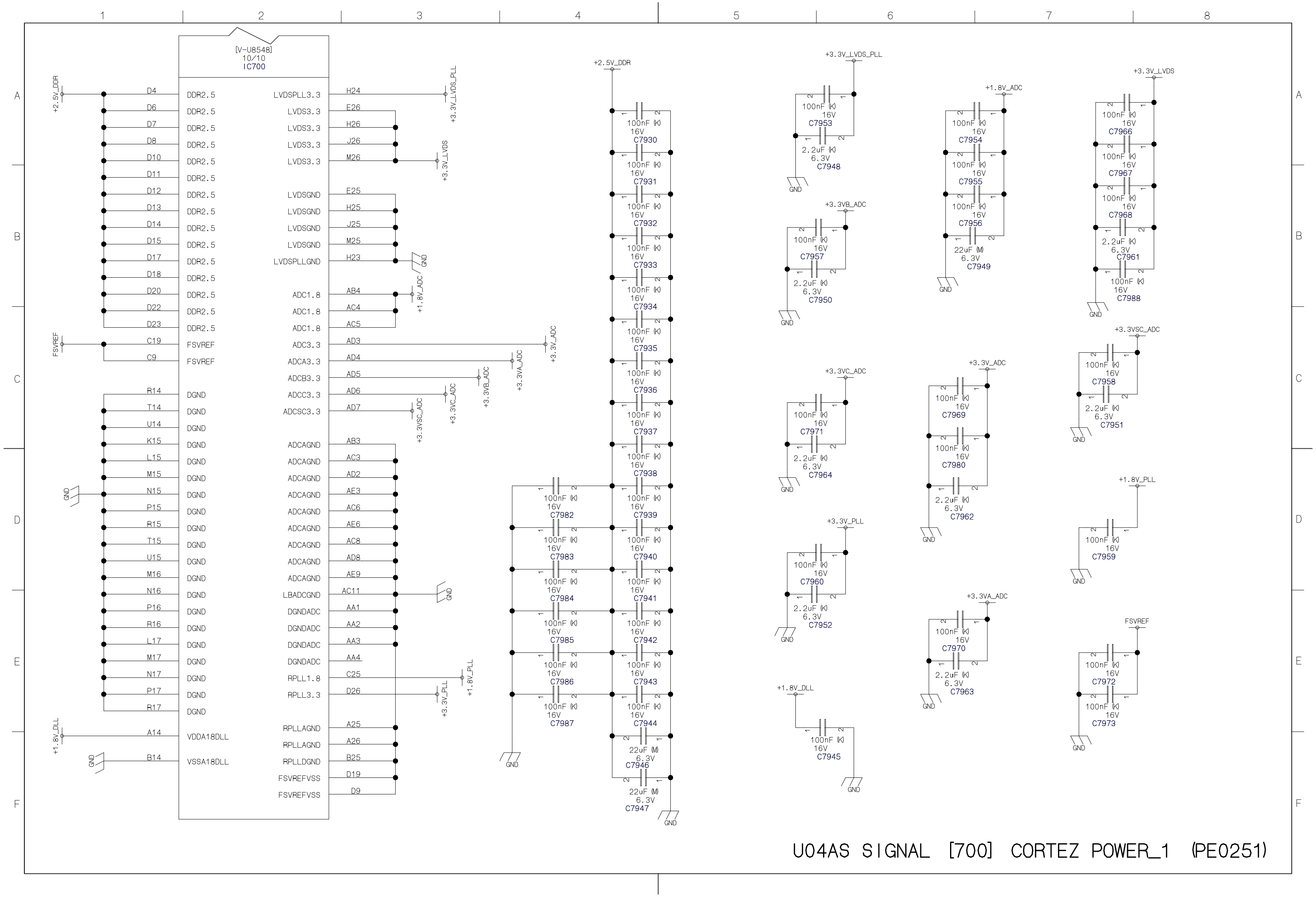
U04AS SIGNAL [409] BOOT CONFIG (PE0251)


V22GD0001528
87BFN-030R-3F
[C30A2]
PJ404
1.NC
2.NC
3. NC
4. NC
5. NC
6. NC
7.NC
8.NC
9.GND
10. 5V2
11.ARXD
12. ATXD
13. GND
14. BOOT
15.RESET
16.SCL0
17.SDA0
18.GND
19. 5V1
20. NC
21. NC
22.SUB_RXD
23.SUB_TXD
24.SUB_RESET
25.SUB_TEST
26.GND
27.5V2
28. GND
29.NC
30.GND
1T
2T
F_GND
GND
5V2
L9031
BKP2125 HS330-T
L9032
BKP2125 HS330-T
5V1
C9070
100nF (K)
16V
C9059
C9058
C9057
C9056
C9055
C9074
33pF (J)
50V
C9071
100nF (K)
16V
C9067
C9066
C9065
33pF (J)
50V
GND
FL935
BK1608 HS121-T
401:6C
FB_TEST
FL930
[FL08B]
BK3216 4S121-T
FL931
BK1608 HS121-T
SCL0
304:4E;400:3D;404:1E
ATXD
400:2D
ARXD
400:2D
SDA0
304:7E;400:3E;404:1E
BK3216 4S121-T
[FL08B]
FL932
SUB_RXD
600:7C
SUB_TXD
600:7C
SUB_TEST
600:7C
+3.3V_I/O
R920
4.7K (J)
+3.3V_I/O
R922
4.7K (J)
R921
4.7K (J)
Q920
2SC4116-Y (TE85L, F)
/RESET
400:3D;402:3D;404:7E
Q921
2SC4116-Y (TE85L, F)
B
C
E
GND

U04AS SIGNAL [410] SERVICE CONNECTOR (PE0251)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
9V
5V2
FL870
1
2
BLM18EG221SN1D
C873
16V
1uF (K)
C872
16V
1uF (K)
C874
2.2nF (K)
GND
F_GND
NOT MOUNT
MZA3216R121AT
[CN23]
PJ24
127301123K2
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
TO U03A AV_TERMINAL [1] CONNECTOR (PE0250)
PJ24A ← PJ24
F_GND
[FL08B]
FL433
I2S_IN_SCL
I2S_IN_WS
I2S_IN_DAT
I2S_OUT_DAT
400:7D
400:7C
400:7C
306:3C;400:6C
[FL08B]
FL434
BK3216 4S121-T
RMT_IN_S
SCL2
SDA2
400:2C
400:1F
400:1F
[FL08B]
FL435
SUB_TXD
SUB_RXD
SUB_TEST
AFT_IN1
410:7D
410:7D
410:7D
400:2C
BK3216 4S121-T
FL436
BK1608 HS121-T
EU_DB_POWER
400:5E
W9000
0 (X)
W9001
0 (X)
W9002
0 (X)
W9003
F_GND
GND

U04AS SIGNAL [600] AUDIO (PE0251)


1
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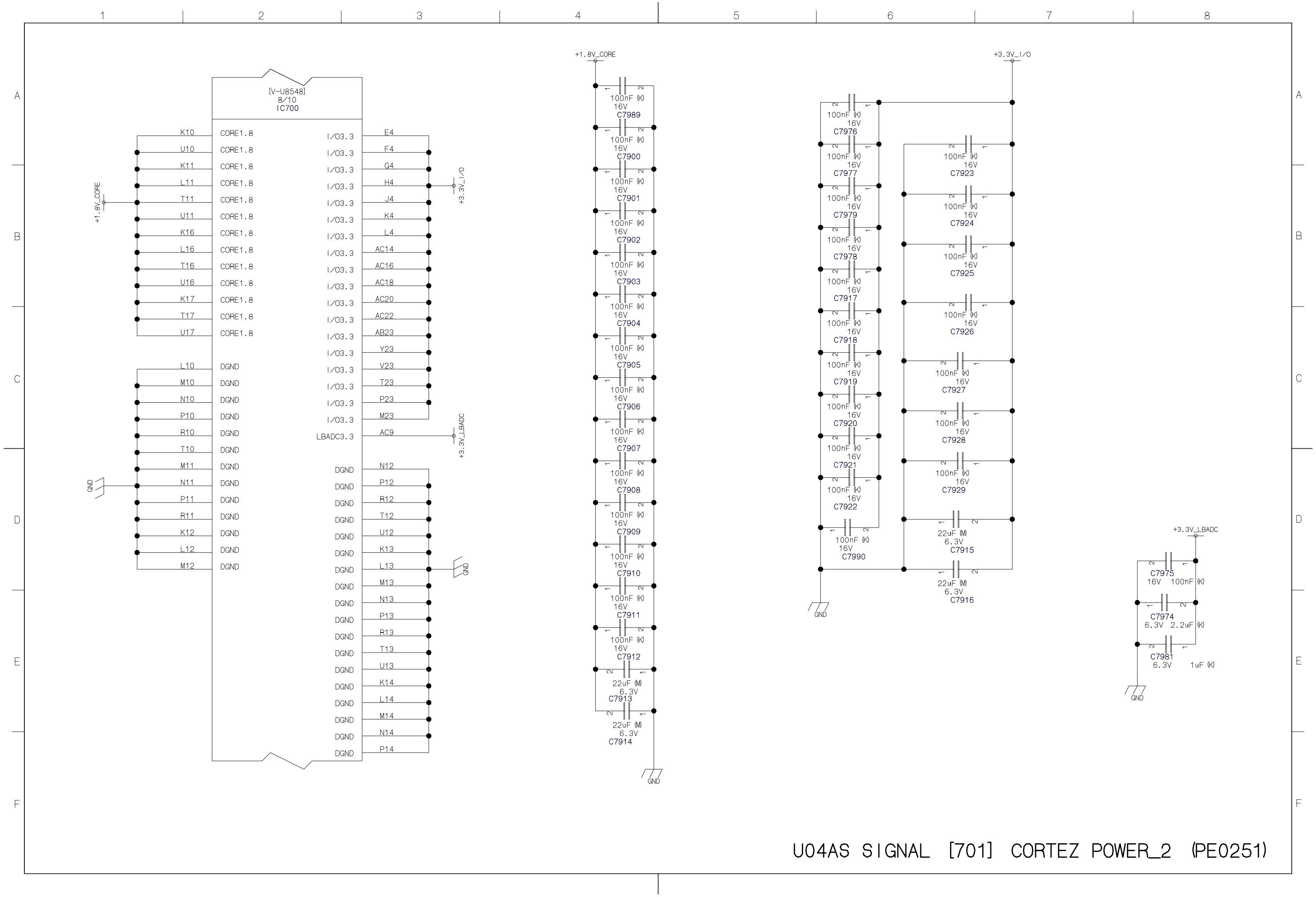
A
B
C
D
E
F
[V-U8548]
10/10
IC700
+2.5V_DDR
D4 DDR2.5
D6 DDR2.5
D7 DDR2.5
D8 DDR2.5
D10 DDR2.5
D11 DDR2.5
D12 DDR2.5
D13 DDR2.5
D14 DDR2.5
D15 DDR2.5
D17 DDR2.5
D18 DDR2.5
D20 DDR2.5
D22 DDR2.5
D23 DDR2.5
FSVREF
C19 FSVREF
C9 FSVREF
R14 DGND
T14 DGND
U14 DGND
K15 DGND
L15 DGND
M15 DGND
N15 DGND
P15 DGND
R15 DGND
T15 DGND
U15 DGND
M16 DGND
N16 DGND
P16 DGND
R16 DGND
L17 DGND
M17 DGND
N17 DGND
P17 DGND
R17 DGND
GND
+1.8V_DLL
A14 VDDA18DLL
B14 VSSA18DLL
LVDSPLL3.3 H24
LVDS3.3 E26
LVDS3.3 H26
LVDS3.3 J26
LVDS3.3 M26
LVDSGND E25
LVDSGND H25
LVDSGND J25
LVDSGND M25
LVDSPLLGND H23
ADC1.8 AB4
ADC1.8 AC4
ADC1.8 AC5
ADC3.3 AD3
ADCA3.3 AD4
ADCB3.3 AD5
ADCC3.3 AD6
ADCSC3.3 AD7
ADCAGND AB3
ADCAGND AC3
ADCAGND AD2
ADCAGND AE3
ADCAGND AC6
ADCAGND AE6
ADCAGND AC8
ADCAGND AD8
ADCAGND AE9
LBADCGND AC11
DGNDADC AA1
DGNDADC AA2
DGNDADC AA3
DGNDADC AA4
RPLL1.8 C25
RPLL3.3 D26
RPLLAGND A25
RPLLAGND A26
RPLLDGND B25
FSVREFVSS D19
FSVREFVSS D9
+3.3V_LVDS_PLL
+3.3V_LVDS
+1.8V_ADC
+3.3V_ADC
+3.3VA_ADC
+3.3VB_ADC
+3.3VC_ADC
+3.3VSC_ADC
+1.8V_PLL
+3.3V_PLL
+2.5V_DDR
100nF (K) 16V C7930
100nF (K) 16V C7931
100nF (K) 16V C7932
100nF (K) 16V C7933
100nF (K) 16V C7934
100nF (K) 16V C7935
100nF (K) 16V C7936
100nF (K) 16V C7937
100nF (K) 16V C7938
100nF (K) 16V C7939
100nF (K) 16V C7940
100nF (K) 16V C7941
100nF (K) 16V C7942
100nF (K) 16V C7943
100nF (K) 16V C7944
22uF (M) 6.3V C7946
22uF (M) 6.3V C7947
100nF (K) 16V C7982
100nF (K) 16V C7983
100nF (K) 16V C7984
100nF (K) 16V C7985
100nF (K) 16V C7986
100nF (K) 16V C7987
+3.3V_LVDS_PLL
100nF (K) 16V C7953
2.2uF (K) 6.3V C7948
+3.3VB_ADC
100nF (K) 16V C7957
2.2uF (K) 6.3V C7950
+3.3VC_ADC
100nF (K) 16V C7971
2.2uF (K) 6.3V C7964
+3.3V_PLL
100nF (K) 16V C7960
2.2uF (K) 6.3V C7952
+1.8V_DLL
100nF (K) 16V C7945
+1.8V_ADC
100nF (K) 16V C7954
100nF (K) 16V C7955
100nF (K) 16V C7956
22uF (M) 6.3V C7949
+3.3V_ADC
100nF (K) 16V C7969
100nF (K) 16V C7980
2.2uF (K) 6.3V C7962
+3.3VA_ADC
100nF (K) 16V C7970
2.2uF (K) 6.3V C7963
+3.3V_LVDS
100nF (K) 16V C7966
100nF (K) 16V C7967
100nF (K) 16V C7968
2.2uF (K) 6.3V C7961
100nF (K) 16V C7988
+3.3VSC_ADC
100nF (K) 16V C7958
2.2uF (K) 6.3V C7951
+1.8V_PLL
100nF (K) 16V C7959
FSVREF
100nF (K) 16V C7972
100nF (K) 16V C7973
GND

U04AS SIGNAL [700] CORTEZ POWER_1 (PE0251)


1
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A
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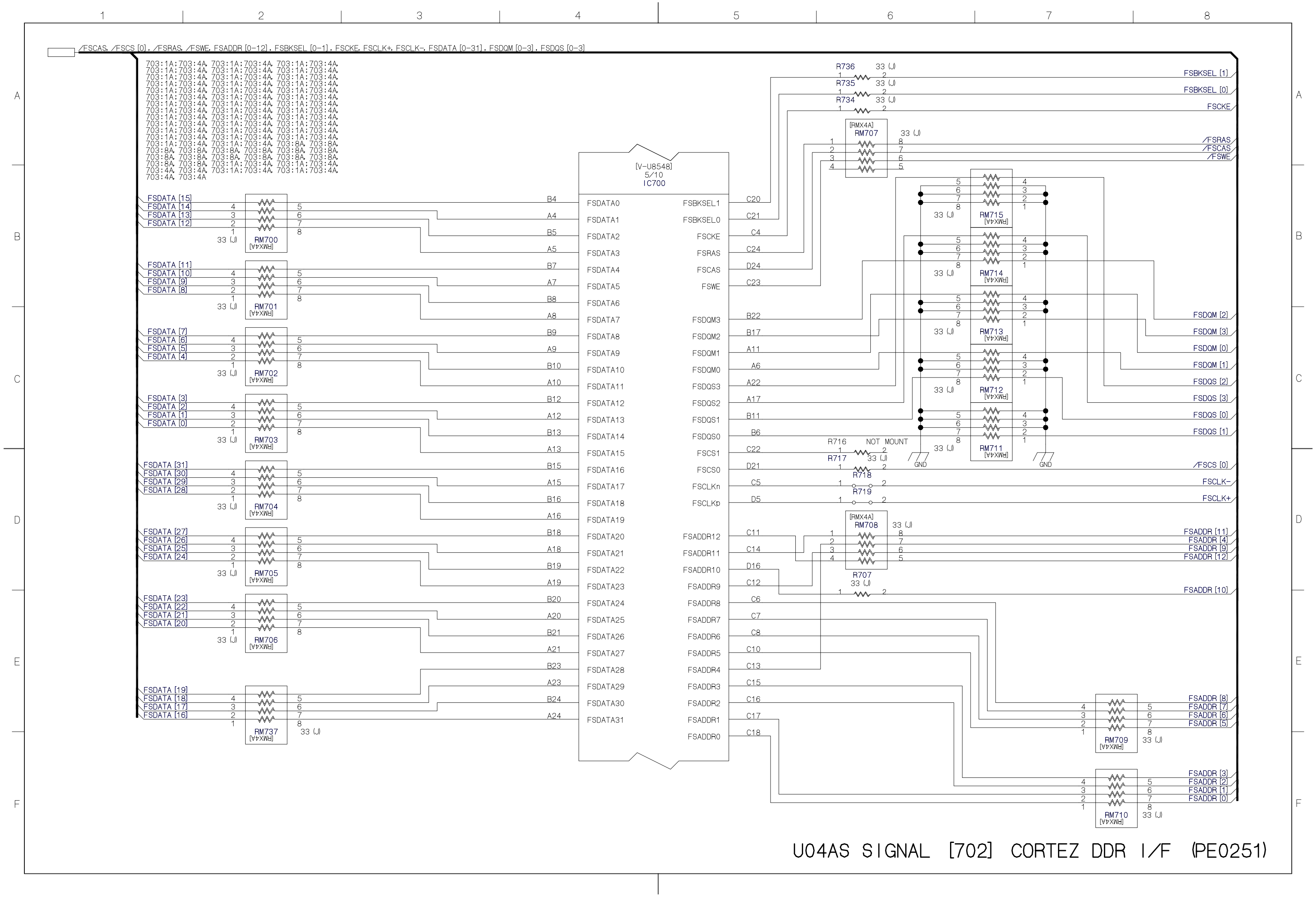
[V-U8548]
8/10
IC700
K10 CORE1.8
U10 CORE1.8
K11 CORE1.8
L11 CORE1.8
T11 CORE1.8
U11 CORE1.8
K16 CORE1.8
L16 CORE1.8
T16 CORE1.8
U16 CORE1.8
K17 CORE1.8
T17 CORE1.8
U17 CORE1.8
+1.8V_CORE
L10 DGND
M10 DGND
N10 DGND
P10 DGND
R10 DGND
T10 DGND
M11 DGND
N11 DGND
P11 DGND
R11 DGND
K12 DGND
L12 DGND
M12 DGND
GND
I/O3.3 E4
I/O3.3 F4
I/O3.3 G4
I/O3.3 H4
I/O3.3 J4
I/O3.3 K4
I/O3.3 L4
I/O3.3 AC14
I/O3.3 AC16
I/O3.3 AC18
I/O3.3 AC20
I/O3.3 AC22
I/O3.3 AB23
I/O3.3 Y23
I/O3.3 V23
I/O3.3 T23
I/O3.3 P23
I/O3.3 M23
+3.3V_I/O
LBADC3.3 AC9
+3.3V_LBADC
DGND N12
DGND P12
DGND R12
DGND T12
DGND U12
DGND K13
DGND L13
DGND M13
DGND N13
DGND P13
DGND R13
DGND T13
DGND U13
DGND K14
DGND L14
DGND M14
DGND N14
DGND P14
GND
+1.8V_CORE
100nF (K) 16V C7989
100nF (K) 16V C7900
100nF (K) 16V C7901
100nF (K) 16V C7902
100nF (K) 16V C7903
100nF (K) 16V C7904
100nF (K) 16V C7905
100nF (K) 16V C7906
100nF (K) 16V C7907
100nF (K) 16V C7908
100nF (K) 16V C7909
100nF (K) 16V C7910
100nF (K) 16V C7911
100nF (K) 16V C7912
22uF (M) 6.3V C7913
22uF (M) 6.3V C7914
GND
+3.3V_I/O
100nF (K) 16V C7976
100nF (K) 16V C7977
100nF (K) 16V C7979
100nF (K) 16V C7978
100nF (K) 16V C7917
100nF (K) 16V C7918
100nF (K) 16V C7919
100nF (K) 16V C7920
100nF (K) 16V C7921
100nF (K) 16V C7922
100nF (K) 16V C7990
100nF (K) 16V C7923
100nF (K) 16V C7924
100nF (K) 16V C7925
100nF (K) 16V C7926
100nF (K) 16V C7927
100nF (K) 16V C7928
100nF (K) 16V C7929
22uF (M) 6.3V C7915
22uF (M) 6.3V C7916
GND
+3.3V_LBADC
C7975 16V 100nF (K)
C7974 6.3V 2.2uF (K)
C7981 6.3V 1uF (K)
GND

U04AS SIGNAL [701] CORTEZ POWER_2 (PE0251)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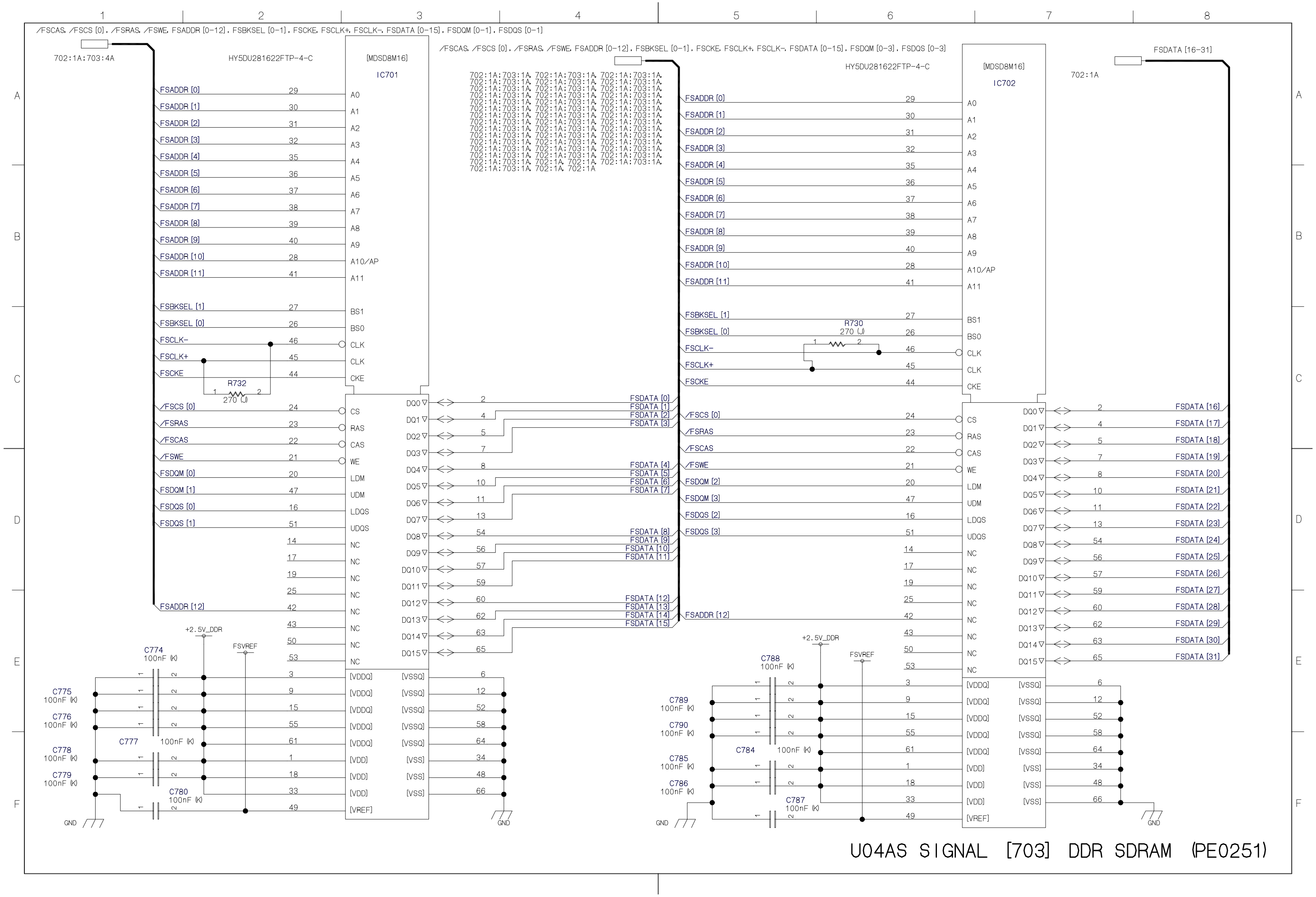
A
B
C
D
E
F
/FSCAS, /FSCS [0], /FSRAS, /FSWE, FSADDR [0-12], FSBKSEL [0-1], FSCKE, FSCLK+, FSCLK-, FSDATA [0-31], FSDQM [0-3], FSDQS [0-3]
703:1A;703:4A, 703:1A;703:4A, 703:1A;703:4A,
703:1A;703:4A, 703:1A;703:4A, 703:1A;703:4A,
703:1A;703:4A, 703:1A;703:4A, 703:1A;703:4A,
703:1A;703:4A, 703:1A;703:4A, 703:1A;703:4A,
703:1A;703:4A, 703:1A;703:4A, 703:1A;703:4A,
703:1A;703:4A, 703:1A;703:4A, 703:1A;703:4A,
703:1A;703:4A, 703:1A;703:4A, 703:1A;703:4A,
703:1A;703:4A, 703:1A;703:4A, 703:1A;703:4A,
703:1A;703:4A, 703:1A;703:4A, 703:1A;703:4A,
703:1A;703:4A, 703:1A;703:4A, 703:1A;703:4A,
703:1A;703:4A, 703:1A;703:4A, 703:1A;703:4A,
703:1A;703:4A, 703:1A;703:4A, 703:1A;703:4A,
703:1A;703:4A, 703:1A;703:4A, 703:8A, 703:8A,
703:8A, 703:8A, 703:8A, 703:8A, 703:8A, 703:8A,
703:8A, 703:8A, 703:8A, 703:8A, 703:8A, 703:8A,
703:8A, 703:8A, 703:1A;703:4A, 703:1A;703:4A,
703:4A, 703:4A, 703:1A;703:4A, 703:1A;703:4A,
703:4A, 703:4A
[V-U8548]
5/10
IC700
FSDATA [15]
FSDATA [14]
FSDATA [13]
FSDATA [12]
RM700
[RMX4A]
33 (J)
FSDATA [11]
FSDATA [10]
FSDATA [9]
FSDATA [8]
RM701
FSDATA [7]
FSDATA [6]
FSDATA [5]
FSDATA [4]
RM702
FSDATA [3]
FSDATA [2]
FSDATA [1]
FSDATA [0]
RM703
FSDATA [31]
FSDATA [30]
FSDATA [29]
FSDATA [28]
RM704
FSDATA [27]
FSDATA [26]
FSDATA [25]
FSDATA [24]
RM705
FSDATA [23]
FSDATA [22]
FSDATA [21]
FSDATA [20]
RM706
FSDATA [19]
FSDATA [18]
FSDATA [17]
FSDATA [16]
RM737
B4 FSDATA0
A4 FSDATA1
B5 FSDATA2
A5 FSDATA3
B7 FSDATA4
A7 FSDATA5
B8 FSDATA6
A8 FSDATA7
B9 FSDATA8
A9 FSDATA9
B10 FSDATA10
A10 FSDATA11
B12 FSDATA12
A12 FSDATA13
B13 FSDATA14
A13 FSDATA15
B15 FSDATA16
A15 FSDATA17
B16 FSDATA18
A16 FSDATA19
B18 FSDATA20
A18 FSDATA21
B19 FSDATA22
A19 FSDATA23
B20 FSDATA24
A20 FSDATA25
B21 FSDATA26
A21 FSDATA27
B23 FSDATA28
A23 FSDATA29
B24 FSDATA30
A24 FSDATA31
FSBKSEL1 C20
FSBKSEL0 C21
FSCKE C4
FSRAS C24
FSCAS D24
FSWE C23
FSDQM3 B22
FSDQM2 B17
FSDQM1 A11
FSDQM0 A6
FSDQS3 A22
FSDQS2 A17
FSDQS1 B11
FSDQS0 B6
FSCS1 C22
FSCS0 D21
FSCLKn C5
FSCLKp D5
FSADDR12 C11
FSADDR11 C14
FSADDR10 D16
FSADDR9 C12
FSADDR8 C6
FSADDR7 C7
FSADDR6 C8
FSADDR5 C10
FSADDR4 C13
FSADDR3 C15
FSADDR2 C16
FSADDR1 C17
FSADDR0 C18
R736 33 (J)
R735 33 (J)
R734 33 (J)
[RMX4A]
RM707
33 (J)
FSBKSEL [1]
FSBKSEL [0]
FSCKE
/FSRAS
/FSCAS
/FSWE
RM715
RM714
RM713
RM712
RM711
33 (J)
GND
GND
FSDQM [2]
FSDQM [3]
FSDQM [0]
FSDQM [1]
FSDQS [2]
FSDQS [3]
FSDQS [0]
FSDQS [1]
R716 NOT MOUNT
R717 33 (J)
R718
R719
/FSCS [0]
FSCLK-
FSCLK+
[RMX4A]
RM708
33 (J)
FSADDR [11]
FSADDR [4]
FSADDR [9]
FSADDR [12]
R707
33 (J)
FSADDR [10]
FSADDR [8]
FSADDR [7]
FSADDR [6]
FSADDR [5]
RM709
33 (J)
FSADDR [3]
FSADDR [2]
FSADDR [1]
FSADDR [0]
RM710
33 (J)

U04AS SIGNAL [702] CORTEZ DDR I/F (PE0251)


/FSCAS, /FSCS [0], /FSRAS, /FSWE, FSADDR [0-12], FSBKSEL [0-1], FSCKE, FSCLK+, FSCLK-, FSDATA [0-15], FSDQM [0-1], FSDQS [0-1]
702:1A:703:4A
HY5DU281622FTP-4-C
[MDSD8M16]
IC701
FSADDR [0]
FSADDR [1]
FSADDR [2]
FSADDR [3]
FSADDR [4]
FSADDR [5]
FSADDR [6]
FSADDR [7]
FSADDR [8]
FSADDR [9]
FSADDR [10]
FSADDR [11]
FSBKSEL [1]
FSBKSEL [0]
FSCLK-
FSCLK+
FSCKE
R732
270 (J)
/FSCS [0]
/FSRAS
/FSCAS
/FSWE
FSDQM [0]
FSDQM [1]
FSDQS [0]
FSDQS [1]
FSADDR [12]
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10/AP
A11
BS1
BS0
CLK
CLK
CKE
CS
RAS
CAS
WE
LDM
UDM
LDQS
UDQS
NC
[VDDQ]
[VDD]
[VREF]
[VSSQ]
[VSS]
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15
+2.5V_DDR
FSVREF
C774
100nF (K)
C775
100nF (K)
C776
100nF (K)
C777
100nF (K)
C778
100nF (K)
C779
100nF (K)
C780
100nF (K)
GND
/FSCAS, /FSCS [0], /FSRAS, /FSWE, FSADDR [0-12], FSBKSEL [0-1], FSCKE, FSCLK+, FSCLK-, FSDATA [0-15], FSDQM [0-3], FSDQS [0-3]
702:1A:703:1A
FSDATA [0]
FSDATA [1]
FSDATA [2]
FSDATA [3]
FSDATA [4]
FSDATA [5]
FSDATA [6]
FSDATA [7]
FSDATA [8]
FSDATA [9]
FSDATA [10]
FSDATA [11]
FSDATA [12]
FSDATA [13]
FSDATA [14]
FSDATA [15]
HY5DU281622FTP-4-C
[MDSD8M16]
IC702
R730
270 (J)
FSDQM [2]
FSDQM [3]
FSDQS [2]
FSDQS [3]
C788
100nF (K)
C789
100nF (K)
C790
100nF (K)
C784
100nF (K)
C785
100nF (K)
C786
100nF (K)
C787
100nF (K)
FSDATA [16-31]
702:1A
FSDATA [16]
FSDATA [17]
FSDATA [18]
FSDATA [19]
FSDATA [20]
FSDATA [21]
FSDATA [22]
FSDATA [23]
FSDATA [24]
FSDATA [25]
FSDATA [26]
FSDATA [27]
FSDATA [28]
FSDATA [29]
FSDATA [30]
FSDATA [31]
1
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7
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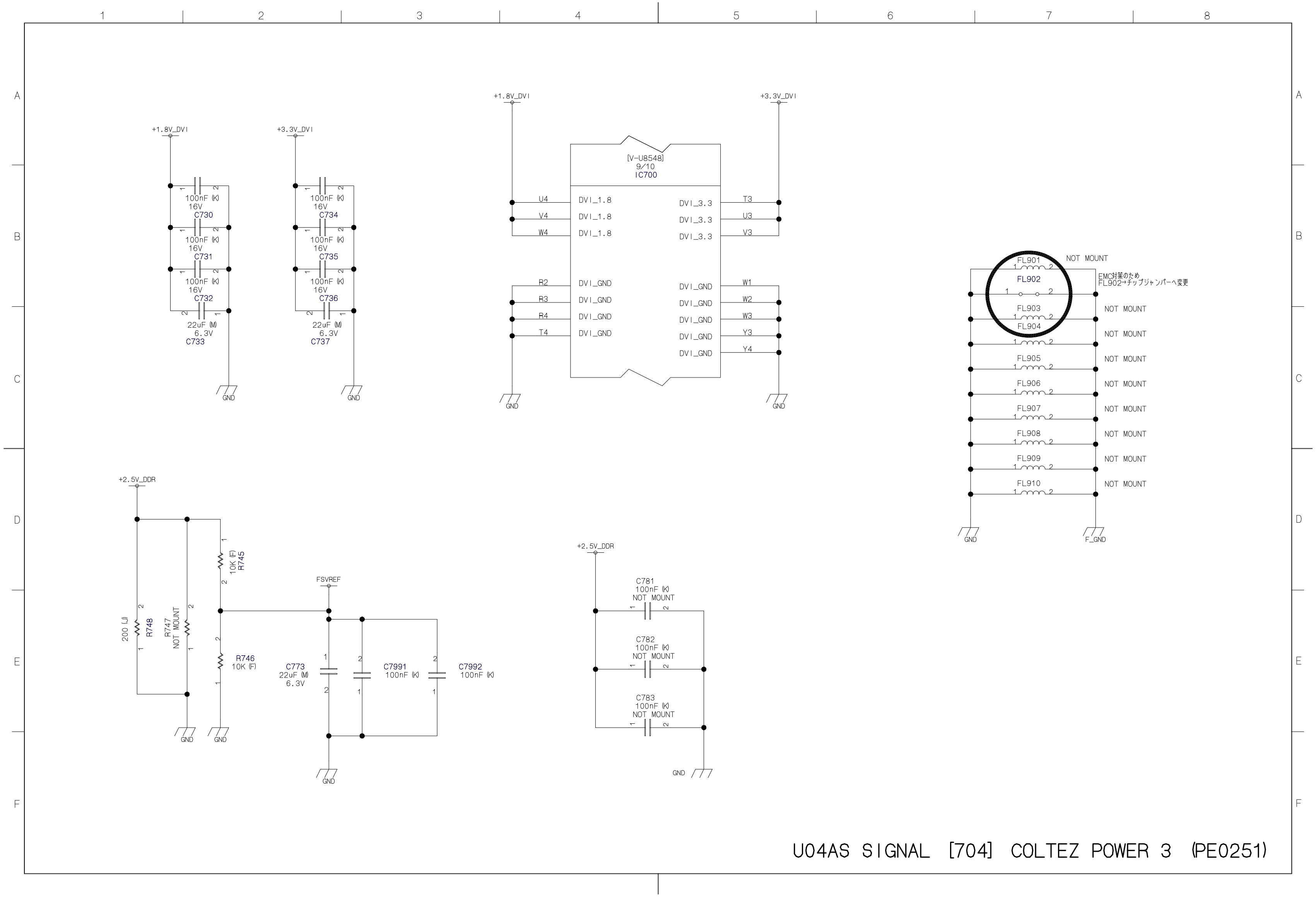
A
B
C
D
E
F

U04AS SIGNAL [703] DDR SDRAM (PE0251)


1
2
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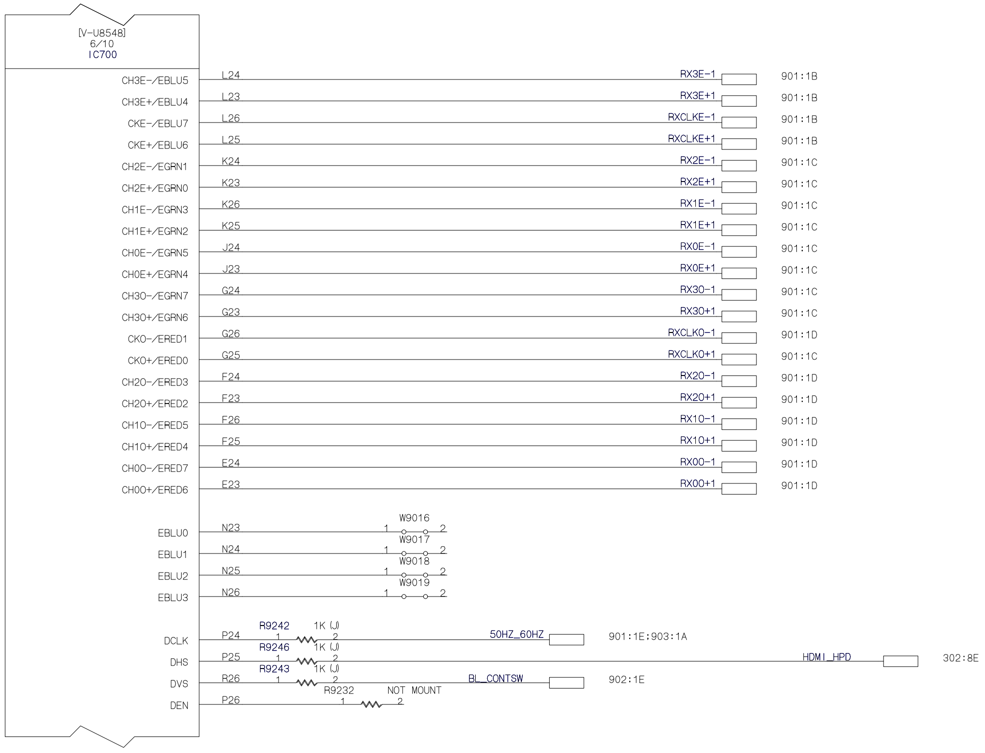
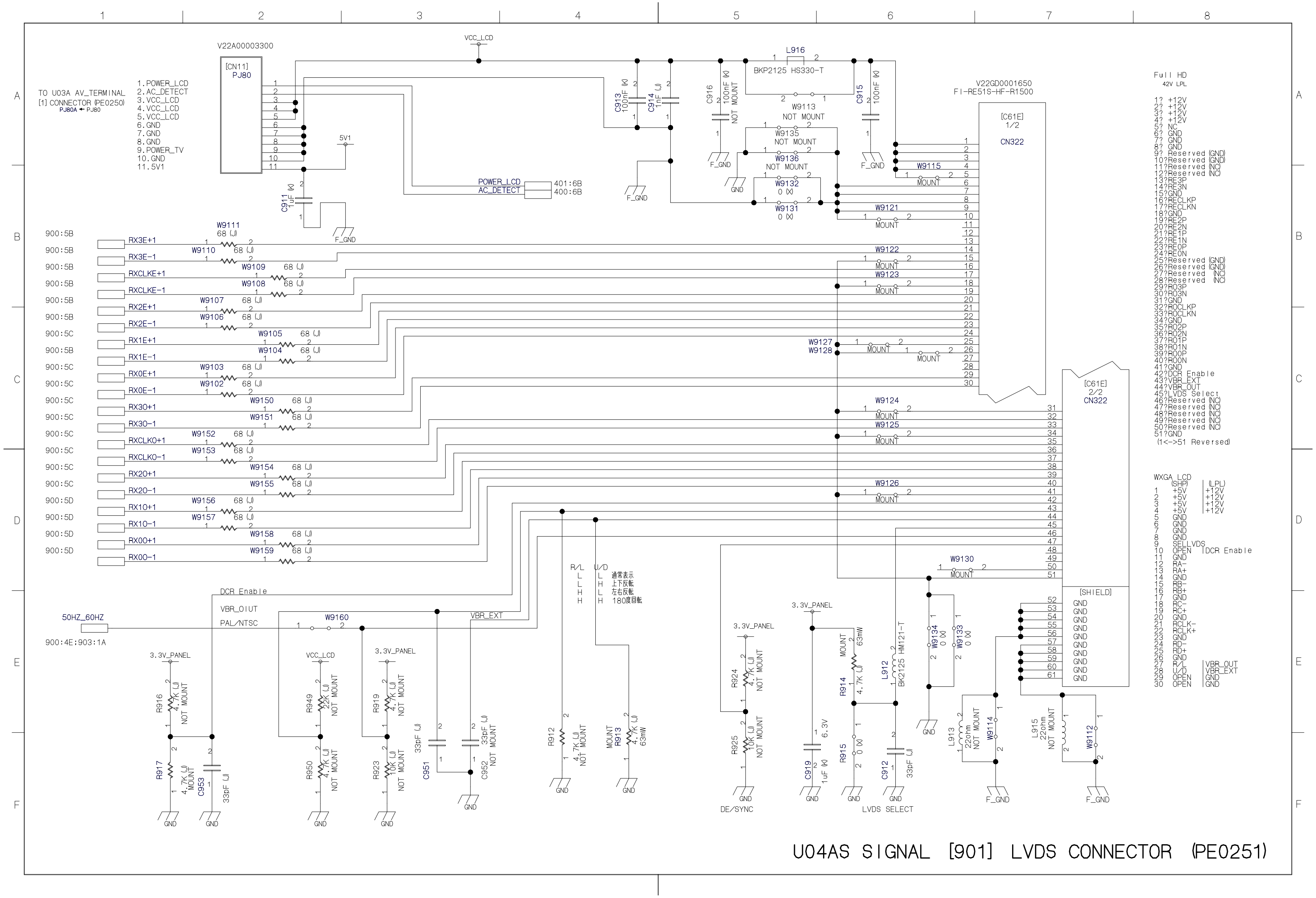
5
6
7
8
A
B
C
D
E
F
+1.8V_DVI
100nF (K)
16V
C730
100nF (K)
16V
C731
100nF (K)
16V
C732
22uF (M)
6.3V
C733
GND
+3.3V_DVI
100nF (K)
16V
C734
100nF (K)
16V
C735
100nF (K)
16V
C736
22uF (M)
6.3V
C737
GND
+1.8V_DVI
+3.3V_DVI
[V-U8548]
9/10
IC700
U4
V4
W4
DVI_1.8
DVI_1.8
DVI_1.8
DVI_3.3
DVI_3.3
DVI_3.3
T3
U3
V3
R2
R3
R4
T4
DVI_GND
DVI_GND
DVI_GND
DVI_GND
DVI_GND
DVI_GND
DVI_GND
DVI_GND
DVI_GND
W1
W2
W3
Y3
Y4
GND
GND
FL901
NOT MOUNT
FL902
EMC対策のため
FL902→チップジャンパーへ変更
FL903
NOT MOUNT
FL904
NOT MOUNT
FL905
NOT MOUNT
FL906
NOT MOUNT
FL907
NOT MOUNT
FL908
NOT MOUNT
FL909
NOT MOUNT
FL910
NOT MOUNT
GND
F_GND
+2.5V_DDR
10K (F)
R745
200 (J)
R748
R747
NOT MOUNT
R746
10K (F)
FSVREF
C773
22uF (M)
6.3V
C7991
100nF (K)
C7992
100nF (K)
GND
GND
GND
+2.5V_DDR
C781
100nF (K)
NOT MOUNT
C782
100nF (K)
NOT MOUNT
C783
100nF (K)
NOT MOUNT
GND

U04AS SIGNAL [704] COLTEZ POWER 3 (PE0251)


[V-U8548]
6/10
IC700
CH3E-/EBLU5 L24 RX3E-1 901:1B
CH3E+/EBLU4 L23 RX3E+1 901:1B
CKE-/EBLU7 L26 RXCLKE-1 901:1B
CKE+/EBLU6 L25 RXCLKE+1 901:1B
CH2E-/EGRN1 K24 RX2E-1 901:1C
CH2E+/EGRN0 K23 RX2E+1 901:1C
CH1E-/EGRN3 K26 RX1E-1 901:1C
CH1E+/EGRN2 K25 RX1E+1 901:1C
CH0E-/EGRN5 J24 RX0E-1 901:1C
CH0E+/EGRN4 J23 RX0E+1 901:1C
CH3O-/EGRN7 G24 RX3O-1 901:1C
CH3O+/EGRN6 G23 RX3O+1 901:1C
CKO-/ERED1 G26 RXCLKO-1 901:1D
CKO+/ERED0 G25 RXCLKO+1 901:1C
CH2O-/ERED3 F24 RX2O-1 901:1D
CH2O+/ERED2 F23 RX2O+1 901:1D
CH1O-/ERED5 F26 RX1O-1 901:1D
CH1O+/ERED4 F25 RX1O+1 901:1D
CH0O-/ERED7 E24 RX0O-1 901:1D
CH0O+/ERED6 E23 RX0O+1 901:1D
EBLU0 N23 W9016 1 2
EBLU1 N24 W9017 1 2
EBLU2 N25 W9018 1 2
EBLU3 N26 W9019 1 2
DCLK P24 R9242 1K (J) 1 2 50HZ_60HZ 901:1E;903:1A
DHS P25 R9246 1K (J) 1 2 HDMI_HPD 302:8E
DVS R26 R9243 1K (J) 1 2 BL_CONTSW 902:1E
DEN P26 R9232 NOT MOUNT 1 2

U04AS SIGNAL [900] CORTEZ LVDS_OUT (PE0251)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
TO U03A AV_TERMINAL
[1] CONNECTOR (PE0250)
PJ80A ← PJ80
1.POWER_LCD
2.AC_DETECT
3.VCC_LCD
4.VCC_LCD
5.VCC_LCD
6.GND
7.GND
8.GND
9.POWER_TV
10.GND
11.5V1
V22A00003300
[CN11]
PJ80
VCC_LCD
5V1
C911
1uF (K)
F_GND
POWER_LCD
AC_DETECT
401:6B
400:6B
C913
100nF (K)
C914
1nF (J)
F_GND
L916
BKP2125 HS330-T
C916
100nF (K)
NOT MOUNT
C915
100nF (K)
W9113
NOT MOUNT
W9135
NOT MOUNT
W9136
NOT MOUNT
W9132
0 (X)
W9131
0 (X)
W9115
MOUNT
W9121
MOUNT
W9122
MOUNT
W9123
MOUNT
W9127
W9128
MOUNT
W9124
MOUNT
W9125
MOUNT
W9126
MOUNT
W9130
MOUNT
V22GD0001650
FI-RE51S-HF-R1500
[C61E]
1/2
CN322
[C61E]
2/2
CN322
[SHIELD]
GND
900:5B
RX3E+1
W9111
68 (J)
900:5B
RX3E-1
W9110
68 (J)
900:5B
RXCLKE+1
W9109
68 (J)
900:5B
RXCLKE-1
W9108
68 (J)
900:5B
RX2E+1
W9107
68 (J)
900:5B
RX2E-1
W9106
68 (J)
900:5C
RX1E+1
W9105
68 (J)
900:5B
RX1E-1
W9104
68 (J)
900:5C
RX0E+1
W9103
68 (J)
900:5C
RX0E-1
W9102
68 (J)
900:5C
RX3O+1
W9150
68 (J)
900:5C
RX3O-1
W9151
68 (J)
900:5C
RXCLKO+1
W9152
68 (J)
900:5C
RXCLKO-1
W9153
68 (J)
900:5C
RX2O+1
W9154
68 (J)
900:5C
RX2O-1
W9155
68 (J)
900:5D
RX1O+1
W9156
68 (J)
900:5D
RX1O-1
W9157
68 (J)
900:5D
RX0O+1
W9158
68 (J)
900:5D
RX0O-1
W9159
68 (J)
DCR Enable
VBR_OIUT
PAL/NTSC
50HZ_60HZ
900:4E:903:1A
W9160
VBR_EXT
3.3V_PANEL
R916
4.7K (J)
NOT MOUNT
R917
4.7K (J)
MOUNT
C953
33pF (J)
GND
VCC_LCD
R949
22K (J)
NOT MOUNT
R950
4.7K (J)
NOT MOUNT
3.3V_PANEL
R919
4.7K (J)
NOT MOUNT
R923
10K (J)
NOT MOUNT
C951
33pF (J)
C952
33pF (J)
NOT MOUNT
R912
4.7K (J)
NOT MOUNT
R913
MOUNT
4.7K (J)
63mW
3.3V_PANEL
R924
4.7K (J)
NOT MOUNT
R925
10K (J)
NOT MOUNT
DE/SYNC
3.3V_PANEL
C919
1uF (K)
6.3V
R914
4.7K (J)
63mW
MOUNT
R915
0 (X)
L912
BK2125 HM121-T
C912
33pF (J)
LVDS SELECT
W9134
0 (X)
W9133
0 (X)
L913
22ohm
NOT MOUNT
W9114
L915
22ohm
NOT MOUNT
W9112
F_GND

R/L U/D
L L 通常表示
L H 上下反転
H L 左右反転
H H 180度回転

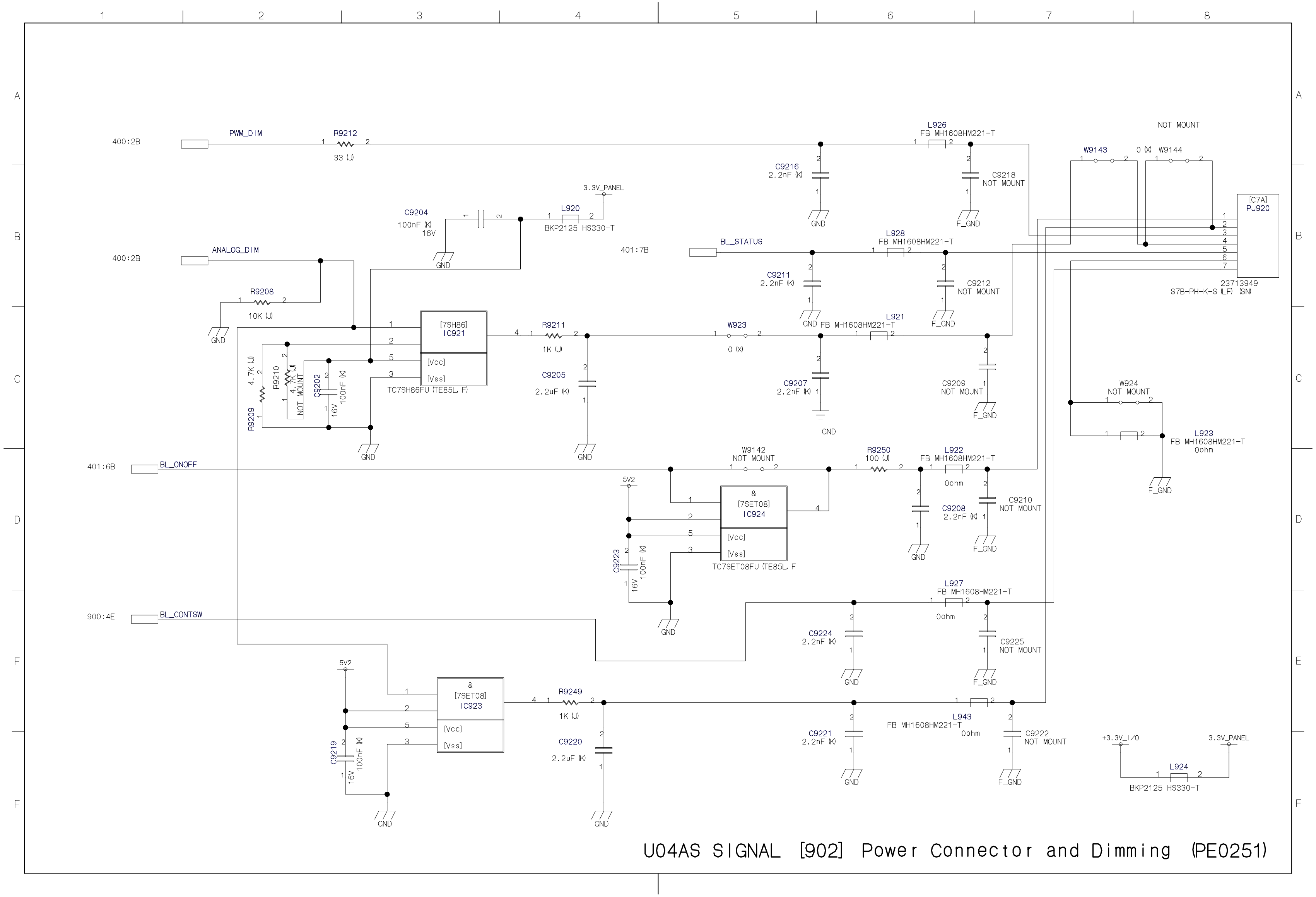
Full HD
42V LPL

1? +12V
2? +12V
3? +12V
4? +12V
5? NC
6? GND
7? GND
8? GND
9? Reserved (GND)
10?Reserved (GND)
11?Reserved (NC)
12?Reserved (NC)
13?RE3P
14?RE3N
15?GND
16?RECLKP
17?RECLKN
18?GND
19?RE2P
20?RE2N
21?RE1P
22?RE1N
23?RE0P
24?RE0N
25?Reserved (GND)
26?Reserved (GND)
27?Reserved (NC)
28?Reserved (NC)
29?RO3P
30?RO3N
31?GND
32?ROCLKP
33?ROCLKN
34?GND
35?RO2P
36?RO2N
37?RO1P
38?RO1N
39?RO0P
40?RO0N
41?GND
42?DCR Enable
43?VBR_EXT
44?VBR_OUT
45?LVDS Select
46?Reserved (NC)
47?Reserved (NC)
48?Reserved (NC)
49?Reserved (NC)
50?Reserved (NC)
51?GND
(1<->51 Reversed)

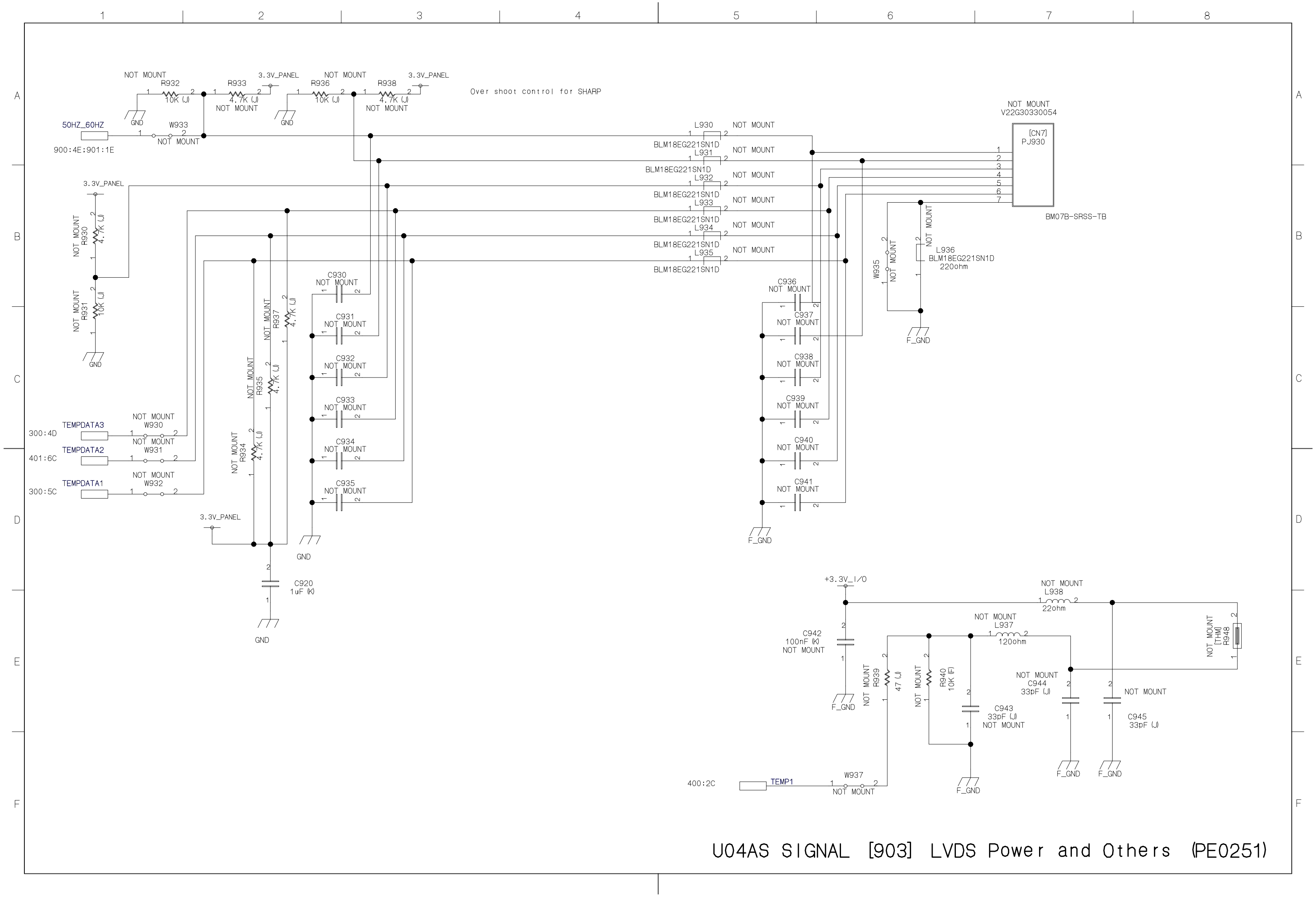
WXGA LCD

	(SHP)	(LPL)
1	+5V	+12V
2	+5V	+12V
3	+5V	+12V
4	+5V	+12V
5	GND	
6	GND	
7	GND	
8	GND	
9	SELLVDS	
10	OPEN	DCR Enable
11	GND	
12	RA-	
13	RA+	
14	GND	
15	RB-	
16	RB+	
17	GND	
18	RC-	
19	RC+	
20	GND	
21	RCLK-	
22	RCLK+	
23	GND	
24	RD-	
25	RD+	
26	GND	
27	R/L	VBR_OUT
28	U/D	VBR_EXT
29	OPEN	GND
30	OPEN	GND

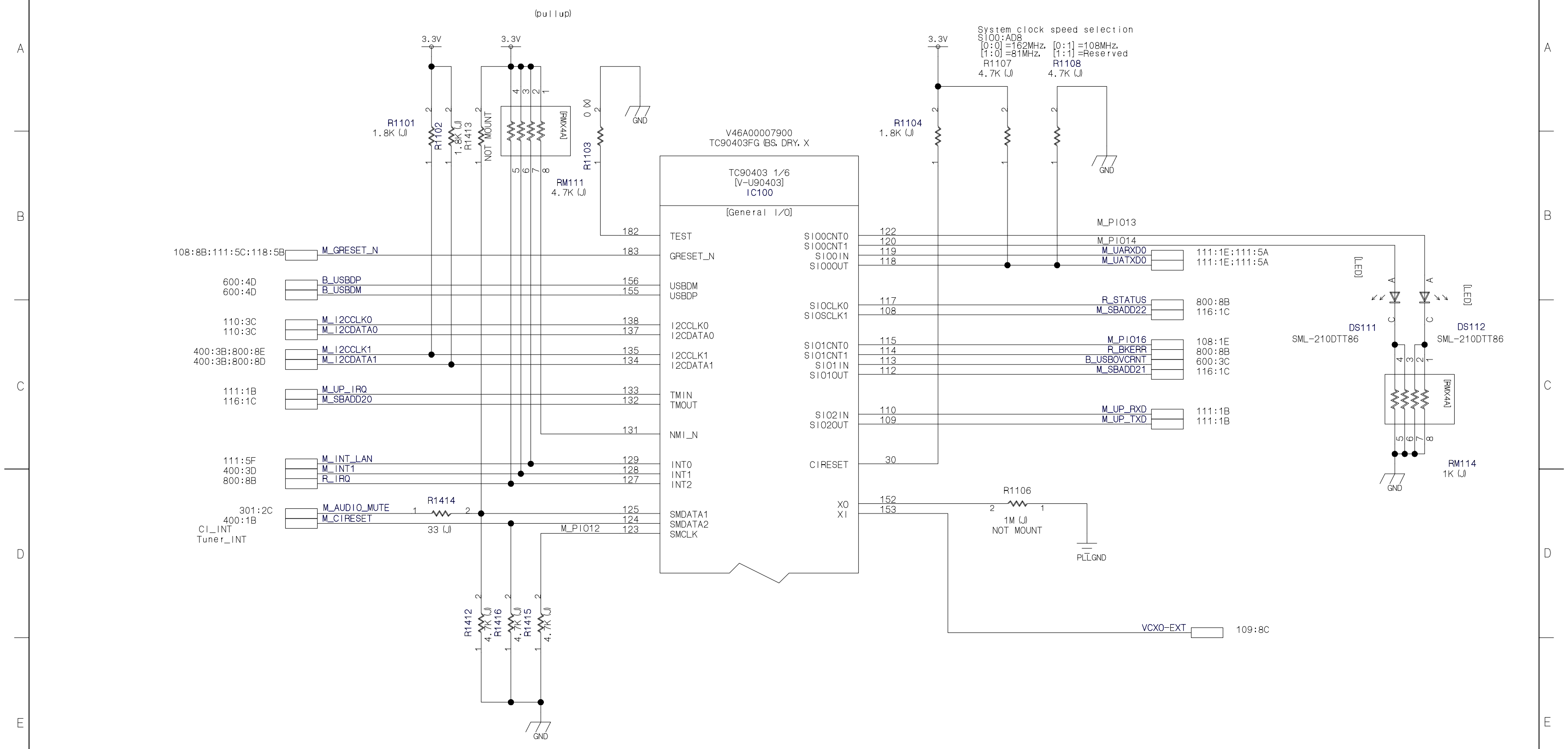
U04AS SIGNAL [901] LVDS CONNECTOR (PE0251)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
400:2B
PWM_DIM
R9212
33 (J)
L926
FB MH1608HM221-T
C9216
2.2nF (K)
C9218
NOT MOUNT
GND
F_GND
NOT MOUNT
W9143
0 (X)
W9144
[C7A]
PJ920
23713949
S7B-PH-K-S (LF) (SN)
3.3V_PANEL
C9204
100nF (K)
16V
L920
BKP2125 HS330-T
400:2B
ANALOG_DIM
401:7B
BL_STATUS
L928
FB MH1608HM221-T
C9211
2.2nF (K)
C9212
NOT MOUNT
R9208
10K (J)
[7SH86]
IC921
[Vcc]
[Vss]
TC7SH86FU (TE85L, F)
R9211
1K (J)
W923
0 (X)
L921
FB MH1608HM221-T
C9205
2.2uF (K)
C9207
2.2nF (K)
C9209
NOT MOUNT
R9209
4.7K (J)
R9210
4.7K (J)
NOT MOUNT
C9202
16V
100nF (K)
W924
NOT MOUNT
L923
FB MH1608HM221-T
0ohm
401:6B
BL_ONOFF
W9142
NOT MOUNT
R9250
100 (J)
L922
FB MH1608HM221-T
0ohm
5V2
&
[7SET08]
IC924
TC7SET08FU (TE85L, F
C9208
2.2nF (K)
C9210
NOT MOUNT
C9223
16V
100nF (K)
900:4E
BL_CONTSW
L927
FB MH1608HM221-T
0ohm
C9224
2.2nF (K)
C9225
NOT MOUNT
5V2
&
[7SET08]
IC923
R9249
1K (J)
L943
FB MH1608HM221-T
0ohm
C9219
16V
100nF (K)
C9220
2.2uF (K)
C9221
2.2nF (K)
C9222
NOT MOUNT
+3.3V_I/O
3.3V_PANEL
L924
BKP2125 HS330-T

U04AS SIGNAL [902] Power Connector and Dimming (PE0251)

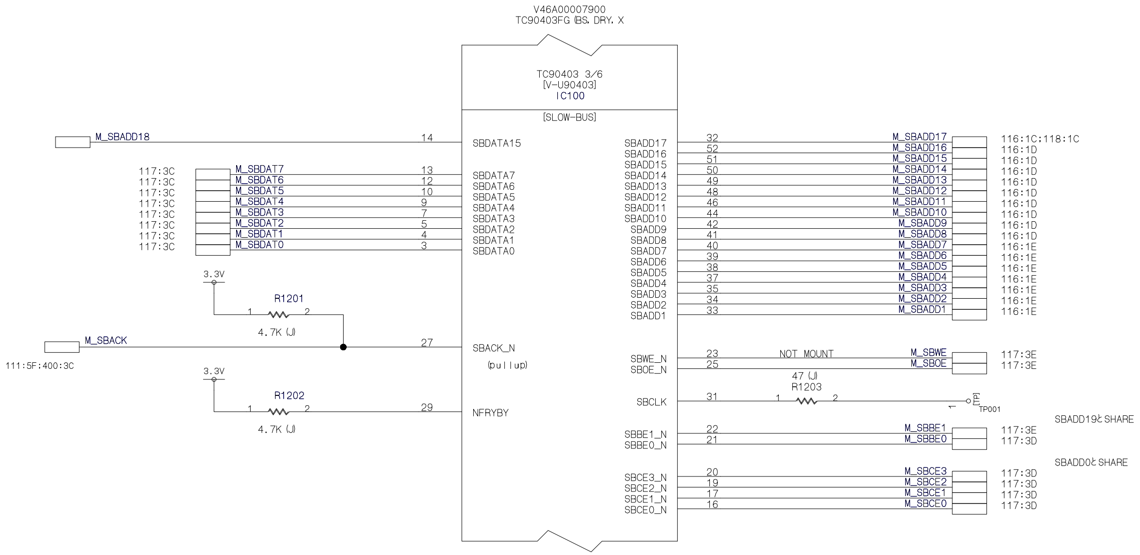

1
2
3
4
5
6
7
8
A
B
C
D
E
F
NOT MOUNT
R932
10K (J)
R933
4.7K (J)
NOT MOUNT
3.3V_PANEL
NOT MOUNT
R936
10K (J)
R938
4.7K (J)
NOT MOUNT
3.3V_PANEL
GND
GND
Over shoot control for SHARP
50HZ_60HZ
900:4E:901:1E
W933
NOT MOUNT
L930
NOT MOUNT
BLM18EG221SN1D
L931
NOT MOUNT
BLM18EG221SN1D
L932
NOT MOUNT
BLM18EG221SN1D
L933
NOT MOUNT
BLM18EG221SN1D
L934
NOT MOUNT
BLM18EG221SN1D
L935
NOT MOUNT
BLM18EG221SN1D
NOT MOUNT
V22G30330054
[CN7]
PJ930
BM07B-SRSS-TB
3.3V_PANEL
NOT MOUNT
R930
4.7K (J)
NOT MOUNT
R931
10K (J)
GND
C930
NOT MOUNT
C931
NOT MOUNT
C932
NOT MOUNT
C933
NOT MOUNT
C934
NOT MOUNT
C935
NOT MOUNT
GND
NOT MOUNT
R937
4.7K (J)
NOT MOUNT
R935
4.7K (J)
NOT MOUNT
R934
4.7K (J)
TEMPDATA3
300:4D
NOT MOUNT
W930
TEMPDATA2
401:6C
NOT MOUNT
W931
TEMPDATA1
300:5C
NOT MOUNT
W932
3.3V_PANEL
C920
1uF (K)
GND
C936
NOT MOUNT
C937
NOT MOUNT
C938
NOT MOUNT
C939
NOT MOUNT
C940
NOT MOUNT
C941
NOT MOUNT
F_GND
W935
NOT MOUNT
NOT MOUNT
L936
BLM18EG221SN1D
220ohm
F_GND
+3.3V_I/O
NOT MOUNT
L938
22ohm
C942
100nF (K)
NOT MOUNT
F_GND
NOT MOUNT
L937
120ohm
NOT MOUNT
R939
47 (J)
NOT MOUNT
R940
10K (F)
C943
33pF (J)
NOT MOUNT
NOT MOUNT
C944
33pF (J)
NOT MOUNT
C945
33pF (J)
NOT MOUNT
[THM]
R948
F_GND
F_GND
F_GND
400:2C
TEMP1
W937
NOT MOUNT

U04AS SIGNAL [903] LVDS Power and Others (PE0251)

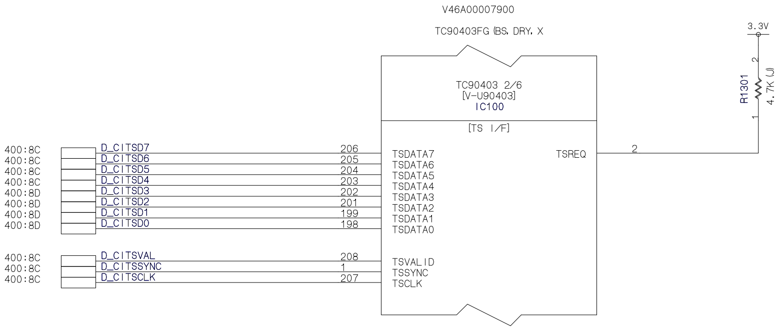


(pullup)
3.3V
3.3V
3.3V
R1101
1.8K (J)
R1102
1.8K (J)
R1413
NOT MOUNT
[RMX4A]
RM111
4.7K (J)
0 (X)
R1103
GND
V46A00007900
TC90403FG (BS, DRY, X
TC90403 1/6
[V-U90403]
IC100
[General I/O]
TEST
GRESET_N
USBDM
USBDP
I2CCLK0
I2CDATA0
I2CCLK1
I2CDATA1
TMIN
TMOUT
NMI_N
INT0
INT1
INT2
SMDATA1
SMDATA2
SMCLK
SIO0CNT0
SIO0CNT1
SIO0IN
SIO0OUT
SIOCLK0
SIOSCLK1
SIO1CNT0
SIO1CNT1
SIO1IN
SIO1OUT
SIO2IN
SIO2OUT
CIRESET
XO
XI
108:8B:111:5C:118:5B
M_GRESET_N
600:4D
600:4D
B_USBDP
B_USBDM
110:3C
110:3C
M_I2CCLK0
M_I2CDATA0
400:3B:800:8E
400:3B:800:8D
M_I2CCLK1
M_I2CDATA1
111:1B
116:1C
M_UP_IRQ
M_SBADD20
111:5F
400:3D
800:8B
M_INT_LAN
M_INT1
R_IRQ
301:2C
400:1B
CI_INT
Tuner_INT
M_AUDIO_MUTE
M_CIRESET
R1414
33 (J)
M_PIO12
R1412
4.7K (J)
R1416
4.7K (J)
R1415
4.7K (J)
GND
R1104
1.8K (J)
System clock speed selection
SIO0:AD8
[0:0]=162MHz, [0:1]=108MHz,
[1:0]=81MHz, [1:1]=Reserved
R1107
4.7K (J)
R1108
4.7K (J)
GND
M_PIO13
M_PIO14
M_UARXD0
M_UATXD0
111:1E:111:5A
111:1E:111:5A
R_STATUS
M_SBADD22
800:8B
116:1C
M_PIO16
R_BKERR
B_USBOVCRNT
M_SBADD21
108:1E
800:8B
600:3C
116:1C
M_UP_RXD
M_UP_TXD
111:1B
111:1B
[LED]
[LED]
DS111
SML-210DTT86
DS112
SML-210DTT86
[RMX4A]
RM114
1K (J)
GND
R1106
1M (J)
NOT MOUNT
PLLGND
VCXO-EXT
109:8C

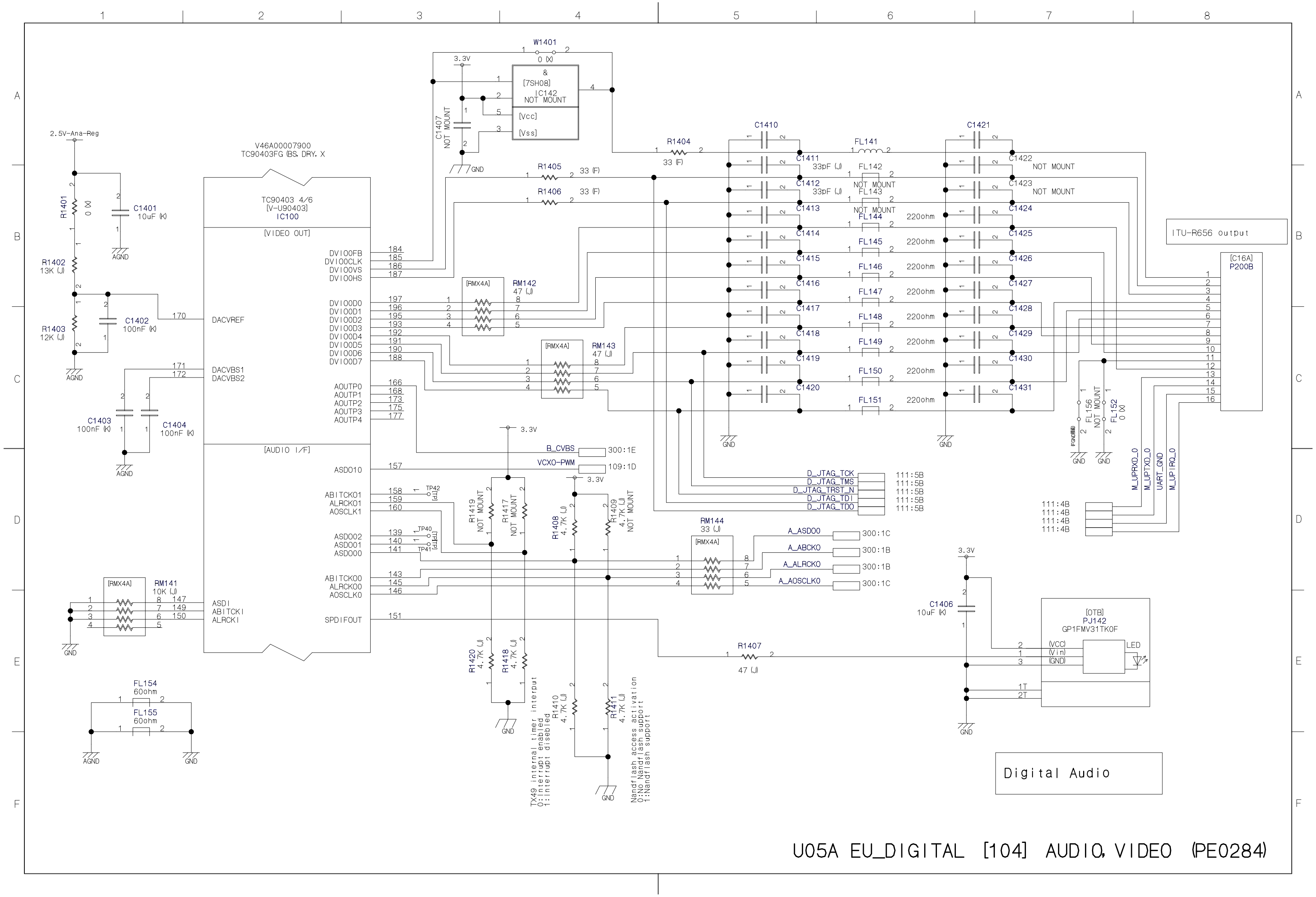
U05A EU_DIGITAL [101] Donau SIO/I2C/RST etc (PE0284)


V46A00007900
TC90403FG (BS, DRY, X
TC90403 3/6
[V-U90403]
IC100
[SLOW-BUS]
M_SBADD18
14
SBDATA15
117:3C
M_SBDAT7
13
SBDATA7
117:3C
M_SBDAT6
12
SBDATA6
117:3C
M_SBDAT5
10
SBDATA5
117:3C
M_SBDAT4
9
SBDATA4
117:3C
M_SBDAT3
7
SBDATA3
117:3C
M_SBDAT2
5
SBDATA2
117:3C
M_SBDAT1
4
SBDATA1
117:3C
M_SBDAT0
3
SBDATA0
3.3V
R1201
1
2
4.7K (J)
M_SBACK
111:5F:400:3C
27
SBACK_N
(pullup)
3.3V
R1202
1
2
4.7K (J)
29
NFRYBY
SBADD17
32
M_SBADD17
116:1C:118:1C
SBADD16
52
M_SBADD16
116:1D
SBADD15
51
M_SBADD15
116:1D
SBADD14
50
M_SBADD14
116:1D
SBADD13
49
M_SBADD13
116:1D
SBADD12
48
M_SBADD12
116:1D
SBADD11
46
M_SBADD11
116:1D
SBADD10
44
M_SBADD10
116:1D
SBADD9
42
M_SBADD9
116:1D
SBADD8
41
M_SBADD8
116:1D
SBADD7
40
M_SBADD7
116:1E
SBADD6
39
M_SBADD6
116:1E
SBADD5
38
M_SBADD5
116:1E
SBADD4
37
M_SBADD4
116:1E
SBADD3
35
M_SBADD3
116:1E
SBADD2
34
M_SBADD2
116:1E
SBADD1
33
M_SBADD1
116:1E
SBWE_N
23
NOT MOUNT
M_SBWE
117:3E
SBOE_N
25
M_SBOE
117:3E
47 (J)
R1203
SBCLK
31
1
2
[TP]
1
TP001
SBADD19と SHARE
SBBE1_N
22
M_SBBE1
117:3E
SBBE0_N
21
M_SBBE0
117:3D
SBADD0と SHARE
SBCE3_N
20
M_SBCE3
117:3D
SBCE2_N
19
M_SBCE2
117:3D
SBCE1_N
17
M_SBCE1
117:3D
SBCE0_N
16
M_SBCE0
117:3D

U05A EU_DIGITAL [102] Donau SB (PE0284)

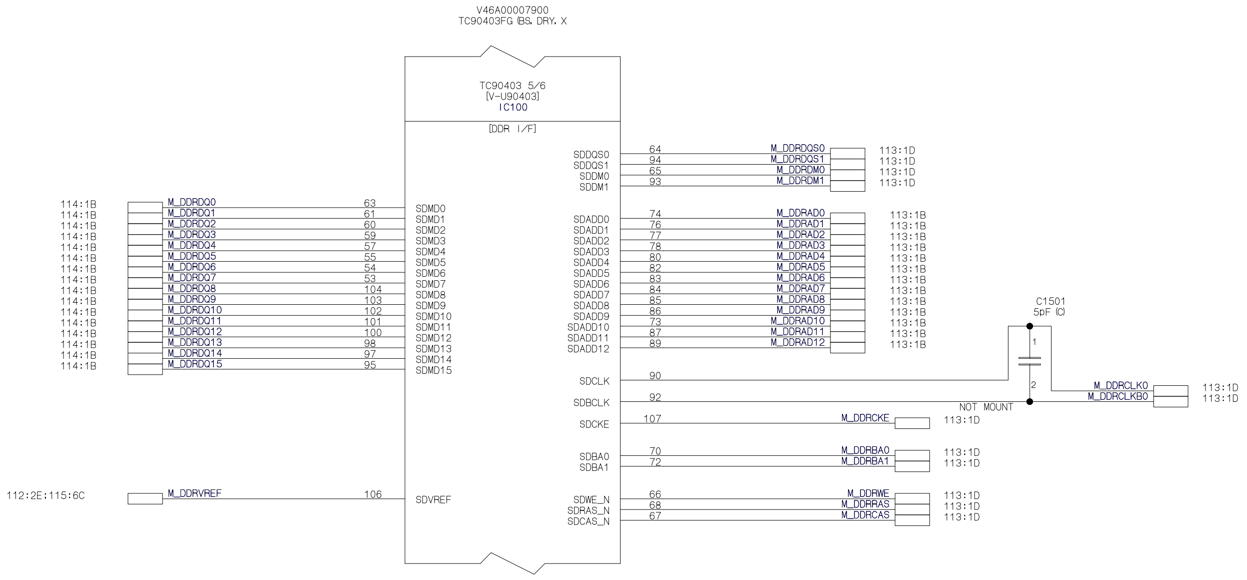

V46A00007900
TC90403FG (BS, DRY, X
TC90403 2/6
[V-U90403]
IC100
[TS I/F]
400:8C
400:8C
400:8C
400:8C
400:8D
400:8D
400:8D
400:8D
D_CITSD7
D_CITSD6
D_CITSD5
D_CITSD4
D_CITSD3
D_CITSD2
D_CITSD1
D_CITSD0
206
205
204
203
202
201
199
198
TSDATA7
TSDATA6
TSDATA5
TSDATA4
TSDATA3
TSDATA2
TSDATA1
TSDATA0
400:8C
400:8C
400:8C
D_CITSVAL
D_CITSSYNC
D_CITSCLK
208
1
207
TSVALID
TSSYNC
TSCLK
TSREQ
2
3.3V
2
R1301
4.7K (J)
1

U05A EU_DIGITAL [103] TS (PE0284)

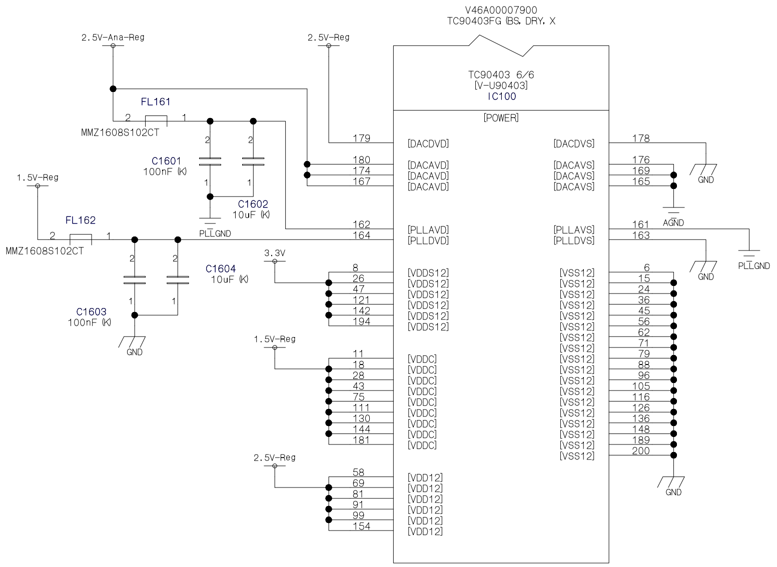

W1401
0 (X)
3.3V
&
[7SH08]
IC142
NOT MOUNT
[Vcc]
[Vss]
C1407
NOT MOUNT
GND
2.5V-Ana-Reg
R1401
0 (X)
C1401
10uF (K)
AGND
R1402
13K (J)
R1403
12K (J)
C1402
100nF (K)
V46A00007900
TC90403FG (BS, DRY, X
TC90403 4/6
[V-U90403]
IC100
[VIDEO OUT]
DVIOOFB
DVIOOCLK
DVIOOVS
DVIOOHS
DVIOOD0
DVIOOD1
DVIOOD2
DVIOOD3
DVIOOD4
DVIOOD5
DVIOOD6
DVIOOD7
DACVREF
DACVBS1
DACVBS2
AOUTP0
AOUTP1
AOUTP2
AOUTP3
AOUTP4
[AUDIO I/F]
ASDO10
ABITCKO1
ALRCKO1
AOSCLK1
ASDO02
ASDO01
ASDO00
ABITCKO0
ALRCKO0
AOSCLKO
ASDI
ABITCKI
ALRCKI
SPDIFOUT
C1403
100nF (K)
C1404
100nF (K)
R1404
33 (F)
R1405
33 (F)
R1406
33 (F)
RM142
47 (J)
RM143
47 (J)
[RMX4A]
RM141
10K (J)
RM144
33 (J)
C1410
C1411
C1412
C1413
C1414
C1415
C1416
C1417
C1418
C1419
C1420
33pF (J)
FL141
FL142
FL143
NOT MOUNT
FL144
FL145
FL146
FL147
FL148
FL149
FL150
FL151
220ohm
C1421
C1422
C1423
C1424
C1425
C1426
C1427
C1428
C1429
C1430
C1431
NOT MOUNT
ITU-R656 output
[C16A]
P200B
FL156
NOT MOUNT
FL152
0 (X)
B_CVBS
300:1E
VCXO-PWM
109:1D
TP42
TP40
TP41
R1419
NOT MOUNT
R1417
NOT MOUNT
R1408
4.7K (J)
R1409
4.7K (J)
NOT MOUNT
D_JTAG_TCK
D_JTAG_TMS
D_JTAG_TRST_N
D_JTAG_TDI
D_JTAG_TDO
111:5B
M_UPRXD_0
M_UPTXD_0
UART_GND
M_UPIRQ_0
111:4B
A_ASDO0
300:1C
A_ABCKO
300:1B
A_ALRCKO
300:1B
A_AOSCLKO
300:1C
C1406
10uF (K)
[OTB]
PJ142
GP1FMV31TK0F
[VCC]
[Vin]
[GND]
LED
R1407
47 (J)
R1420
4.7K (J)
R1418
4.7K (J)
R1410
4.7K (J)
R1411
4.7K (J)
TX49 internal timer interput
0:interupt enabled
1:interupt disabled
Nandflash access activation
0:No Nandflash support
1:Nandflash support
FL154
60ohm
FL155
60ohm
AGND
GND

Digital Audio

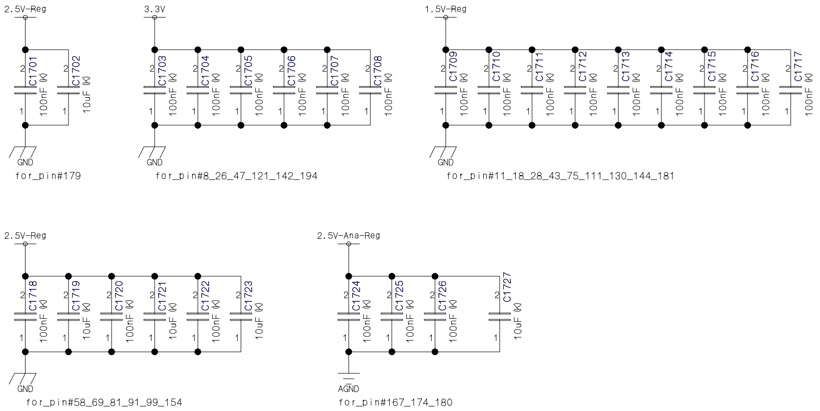
U05A EU_DIGITAL [104] AUDIO, VIDEO (PE0284)


V46A00007900
TC90403FG (BS, DRY, X
TC90403 5/6
[V-U90403]
IC100
[DDR I/F]
114:1B M_DDRDQ0 63 SDMD0
114:1B M_DDRDQ1 61 SDMD1
114:1B M_DDRDQ2 60 SDMD2
114:1B M_DDRDQ3 59 SDMD3
114:1B M_DDRDQ4 57 SDMD4
114:1B M_DDRDQ5 55 SDMD5
114:1B M_DDRDQ6 54 SDMD6
114:1B M_DDRDQ7 53 SDMD7
114:1B M_DDRDQ8 104 SDMD8
114:1B M_DDRDQ9 103 SDMD9
114:1B M_DDRDQ10 102 SDMD10
114:1B M_DDRDQ11 101 SDMD11
114:1B M_DDRDQ12 100 SDMD12
114:1B M_DDRDQ13 98 SDMD13
114:1B M_DDRDQ14 97 SDMD14
114:1B M_DDRDQ15 95 SDMD15
112:2E:115:6C M_DDRVREF 106 SDVREF
SDDQS0 64 M_DDRDQS0 113:1D
SDDQS1 94 M_DDRDQS1 113:1D
SDDM0 65 M_DDRDM0 113:1D
SDDM1 93 M_DDRDM1 113:1D
SDADD0 74 M_DDRAD0 113:1B
SDADD1 76 M_DDRAD1 113:1B
SDADD2 77 M_DDRAD2 113:1B
SDADD3 78 M_DDRAD3 113:1B
SDADD4 80 M_DDRAD4 113:1B
SDADD5 82 M_DDRAD5 113:1B
SDADD6 83 M_DDRAD6 113:1B
SDADD7 84 M_DDRAD7 113:1B
SDADD8 85 M_DDRAD8 113:1B
SDADD9 86 M_DDRAD9 113:1B
SDADD10 73 M_DDRAD10 113:1B
SDADD11 87 M_DDRAD11 113:1B
SDADD12 89 M_DDRAD12 113:1B
SDCLK 90
SDBCLK 92
C1501
5pF (C)
1
2
NOT MOUNT
M_DDRCLK0 113:1D
M_DDRCLKB0 113:1D
SDCKE 107 M_DDRCKE 113:1D
SDBA0 70 M_DDRBA0 113:1D
SDBA1 72 M_DDRBA1 113:1D
SDWE_N 66 M_DDRWE 113:1D
SDRAS_N 68 M_DDRRAS 113:1D
SDCAS_N 67 M_DDRCAS 113:1D

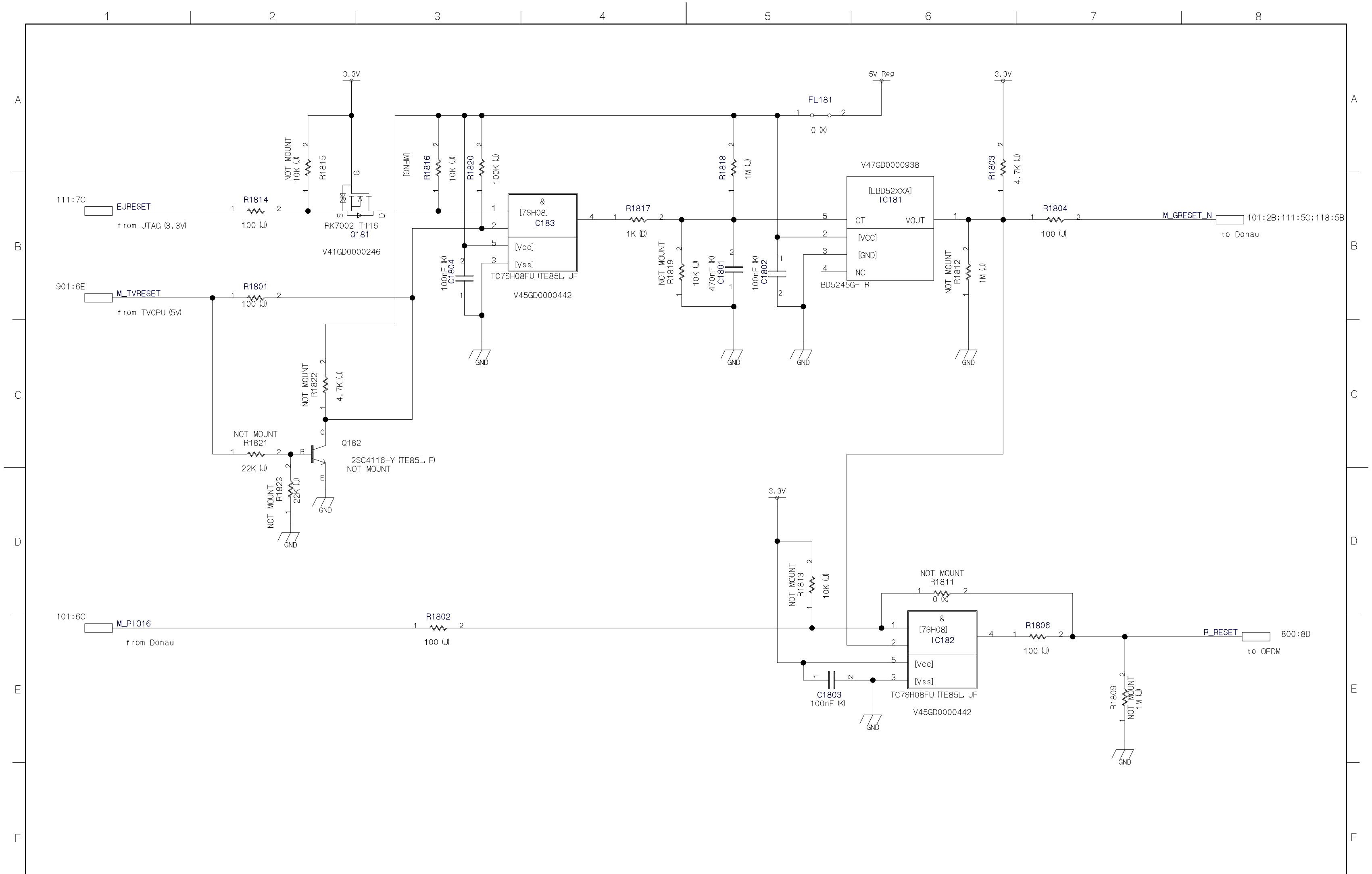
U05A EU_DIGITAL [105] DDRSDRAM I/F (PE0284)


V46A00007900
TC90403FG (BS. DRY. X
TC90403 6/6
[V-U90403]
IC100
[POWER]
2.5V-Ana-Reg
2.5V-Reg
1.5V-Reg
3.3V
1.5V-Reg
2.5V-Reg
FL161
MMZ1608S102CT
FL162
MMZ1608S102CT
C1601
100nF (K)
C1602
10uF (K)
C1603
100nF (K)
C1604
10uF (K)
PLLGND
GND
AGND
179 [DACDVD]
180 [DACAVD]
174 [DACAVD]
167 [DACAVD]
162 [PLLAVD]
164 [PLLDVD]
8 [VDDS12]
26 [VDDS12]
47 [VDDS12]
121 [VDDS12]
142 [VDDS12]
194 [VDDS12]
11 [VDDC]
18 [VDDC]
28 [VDDC]
43 [VDDC]
75 [VDDC]
111 [VDDC]
130 [VDDC]
144 [VDDC]
181 [VDDC]
58 [VDD12]
69 [VDD12]
81 [VDD12]
91 [VDD12]
99 [VDD12]
154 [VDD12]
[DACDVS] 178
[DACAVS] 176
[DACAVS] 169
[DACAVS] 165
[PLLAVS] 161
[PLLDVS] 163
[VSS12] 6
[VSS12] 15
[VSS12] 24
[VSS12] 36
[VSS12] 45
[VSS12] 56
[VSS12] 62
[VSS12] 71
[VSS12] 79
[VSS12] 88
[VSS12] 96
[VSS12] 105
[VSS12] 116
[VSS12] 126
[VSS12] 136
[VSS12] 148
[VSS12] 189
[VSS12] 200

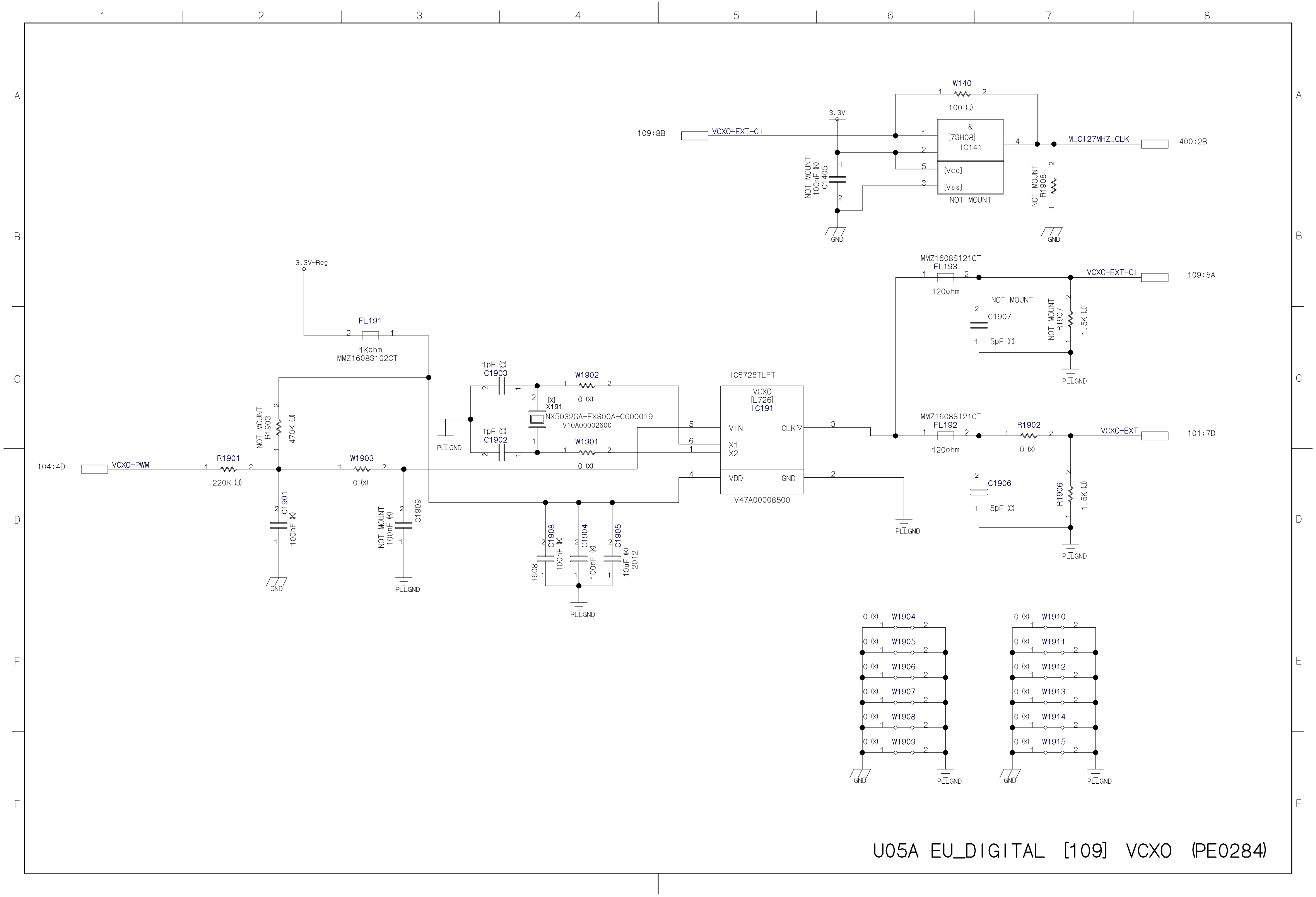
U05A EU_DIGITAL [106] Donau PWR1 (PE0284)


2.5V-Reg
C1701 100nF (K)
C1702 10uF (K)
GND
for_pin#179
3.3V
C1703 100nF (K)
C1704 100nF (K)
C1705 100nF (K)
C1706 100nF (K)
C1707 100nF (K)
C1708 100nF (K)
GND
for_pin#8_26_47_121_142_194
1.5V-Reg
C1709 100nF (K)
C1710 100nF (K)
C1711 100nF (K)
C1712 100nF (K)
C1713 100nF (K)
C1714 100nF (K)
C1715 100nF (K)
C1716 100nF (K)
C1717 100nF (K)
GND
for_pin#11_18_28_43_75_111_130_144_181
2.5V-Reg
C1718 100nF (K)
C1719 10uF (K)
C1720 100nF (K)
C1721 10uF (K)
C1722 100nF (K)
C1723 10uF (K)
GND
for_pin#58_69_81_91_99_154
2.5V-Ana-Reg
C1724 100nF (K)
C1725 100nF (K)
C1726 100nF (K)
C1727 10uF (K)
AGND
for_pin#167_174_180

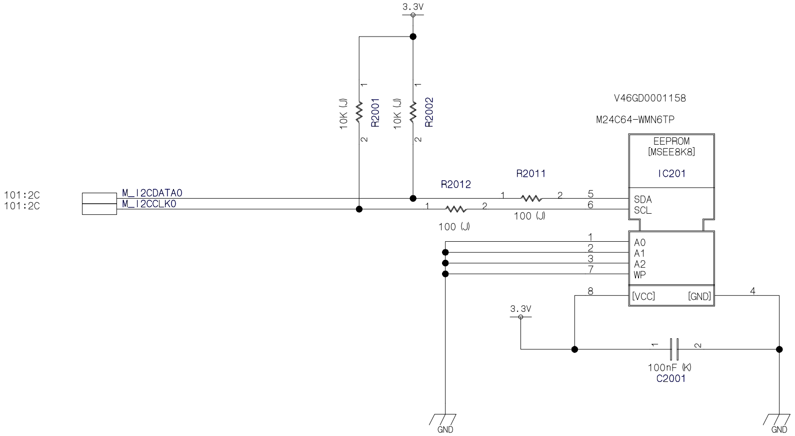
U05A EU_DIGITAL [107] Donau PATHCON (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
3.3V
5V-Reg
FL181
0 (X)
3.3V
111:7C
EJRESET
from JTAG (3.3V)
R1814
100 (J)
NOT MOUNT
10K (J)
R1815
G
S
D
RK7002 T116
Q181
V41GD0000246
[MFNG]
R1816
10K (J)
R1820
100K (J)
&
[7SH08]
IC183
[Vcc]
[Vss]
TC7SH08FU (TE85L, JF
V45GD0000442
100nF (K)
C1804
R1817
1K (D)
R1818
1M (J)
NOT MOUNT
R1819
10K (J)
470nF (K)
C1801
100nF (K)
C1802
V47GD0000938
[LBD52XXA]
IC181
CT
VOUT
[VCC]
[GND]
NC
BD5245G-TR
R1803
4.7K (J)
R1804
100 (J)
NOT MOUNT
R1812
1M (J)
M_GRESET_N
101:2B:111:5C:118:5B
to Donau
901:6E
M_TVRESET
from TVCPU (5V)
R1801
100 (J)
NOT MOUNT
R1822
4.7K (J)
NOT MOUNT
R1821
22K (J)
B
C
E
Q182
2SC4116-Y (TE85L, F)
NOT MOUNT
NOT MOUNT
R1823
22K (J)
GND
3.3V
NOT MOUNT
R1813
10K (J)
NOT MOUNT
R1811
0 (X)
101:6C
M_PIO16
from Donau
R1802
100 (J)
&
[7SH08]
IC182
[Vcc]
[Vss]
TC7SH08FU (TE85L, JF
V45GD0000442
C1803
100nF (K)
R1806
100 (J)
R_RESET
800:8D
to OFDM
R1809
NOT MOUNT
1M (J)
GND

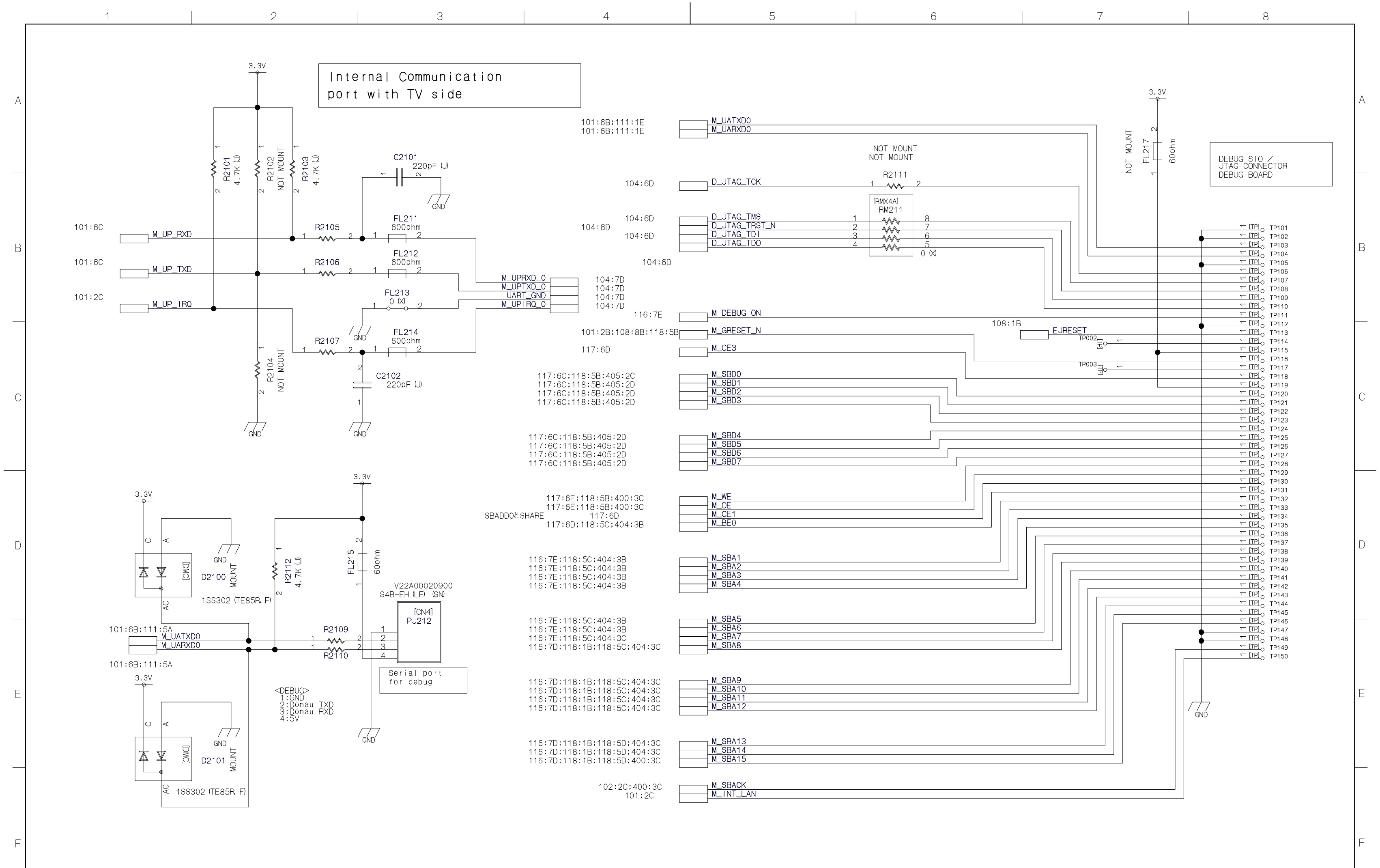
U05A EU_DIGITAL [108] RST/CLK (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
W140
100 (J)
3.3V
109:8B
VCXO-EXT-CI
&
[7SH08]
IC141
[Vcc]
[Vss]
NOT MOUNT
M_CI27MHZ_CLK
400:2B
NOT MOUNT
100nF (K)
C1405
NOT MOUNT
R1908
GND
MMZ1608S121CT
FL193
120ohm
VCXO-EXT-CI
109:5A
NOT MOUNT
C1907
5pF (C)
NOT MOUNT
R1907
1.5K (J)
PLLGND
3.3V-Reg
FL191
1Kohm
MMZ1608S102CT
1pF (C)
C1903
W1902
0 (X)
[X]
X191
NX5032GA-EXS00A-CG00019
V10A00002600
1pF (C)
C1902
W1901
0 (X)
ICS726TLFT
VCXO
[L726]
IC191
VIN
X1
X2
CLK
VDD
GND
V47A00008500
MMZ1608S121CT
FL192
120ohm
R1902
0 (X)
VCXO-EXT
101:7D
C1906
5pF (C)
R1906
1.5K (J)
NOT MOUNT
R1903
470K (J)
104:4D
VCXO-PWM
R1901
220K (J)
W1903
0 (X)
C1901
100nF (K)
NOT MOUNT
100nF (K)
C1909
1608
C1908
100nF (K)
C1904
100nF (K)
C1905
10uF (K)
2012
0 (X) W1904
0 (X) W1905
0 (X) W1906
0 (X) W1907
0 (X) W1908
0 (X) W1909
0 (X) W1910
0 (X) W1911
0 (X) W1912
0 (X) W1913
0 (X) W1914
0 (X) W1915

U05A EU_DIGITAL [109] VCXO (PE0284)

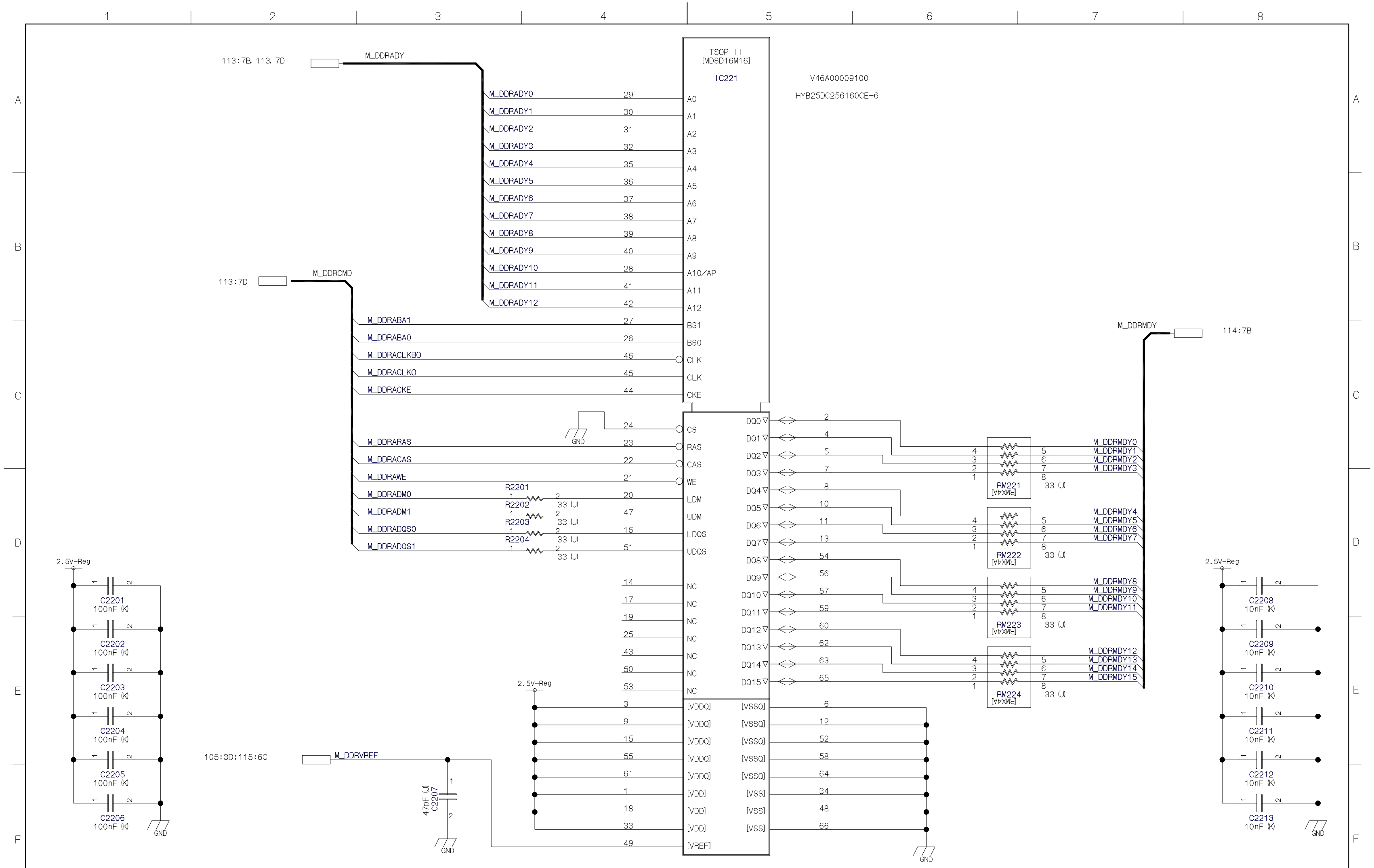

3.3V
10K (J)
R2001
10K (J)
R2002
V46GD0001158
M24C64-WMN6TP
EEPROM
[MSEE8K8]
IC201
R2012
R2011
101:2C
101:2C
M_I2CDATA0
M_I2CCLK0
SDA
SCL
100 (J)
100 (J)
A0
A1
A2
WP
[VCC]
[GND]
3.3V
100nF (K)
C2001
GND
GND

U05A EU_DIGITAL [110] E2PROM (PE0284)

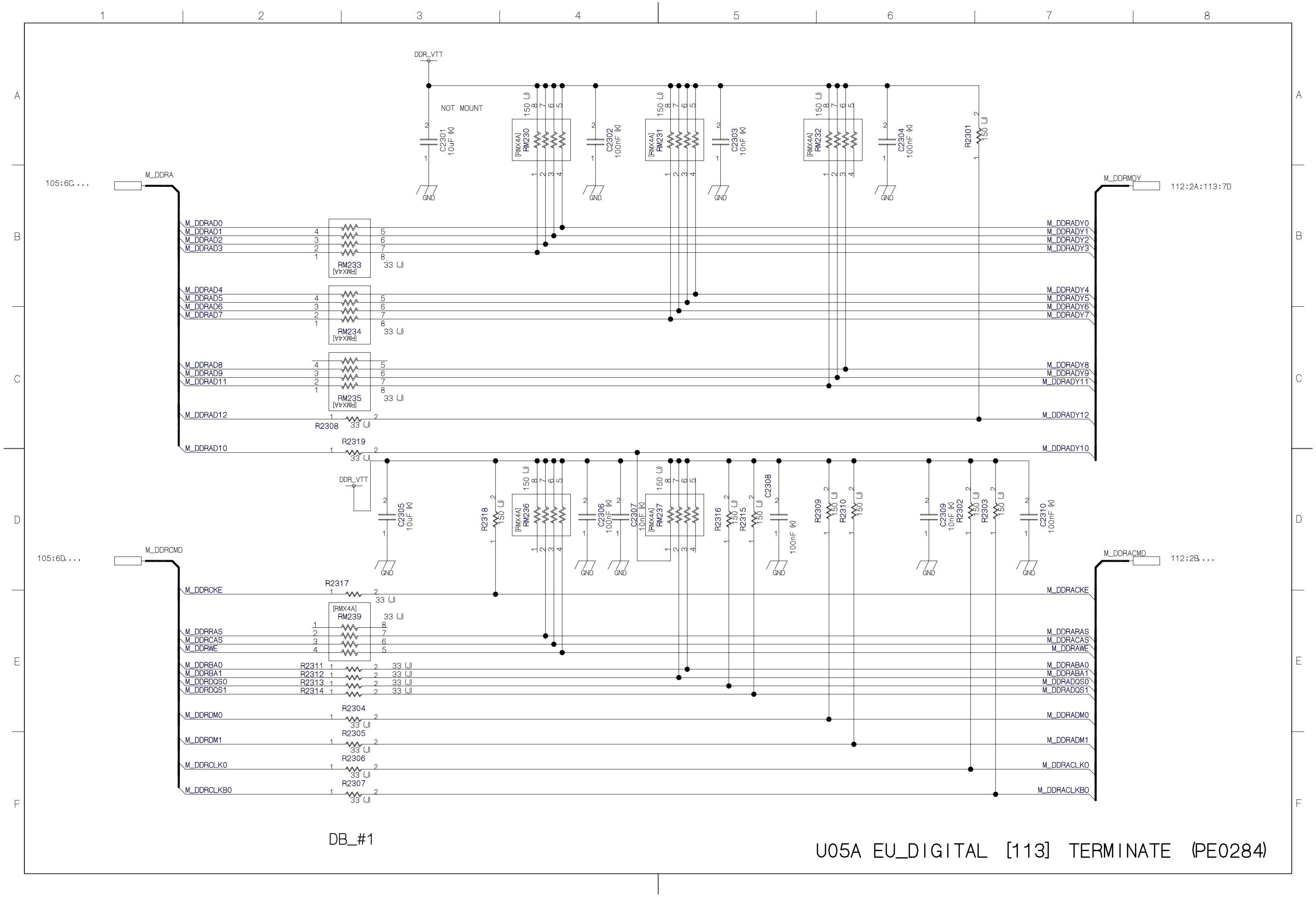


1
2
3
4
5
6
7
8
A
B
C
D
E
F
Internal Communication port with TV side
3.3V
R2101 4.7K (J)
R2102 NOT MOUNT
R2103 4.7K (J)
C2101 220pF (J)
GND
101:6C
M_UP_RXD
R2105
FL211 600ohm
101:6C
M_UP_TXD
R2106
FL212 600ohm
101:2C
M_UP_IRQ
FL213 0 (X)
R2107
FL214 600ohm
R2104 NOT MOUNT
C2102 220pF (J)
M_UPRXD_0
M_UPTXD_0
UART_GND
M_UPIRQ_0
104:7D
104:7D
104:7D
104:7D
D2100
1SS302 (TE85R, F)
MOUNT
[CMD]
R2112 4.7K (J)
FL215 600ohm
V22A00020900
S4B-EH (LF) (SN)
[CN4]
PJ212
101:6B:111:5A
M_UATXD0
M_UARXD0
101:6B:111:5A
R2109
R2110
Serial port for debug
<DEBUG>
1:GND
2:Donau TXD
3:Donau RXD
4:5V
D2101
1SS302 (TE85R, F)
MOUNT
101:6B:111:1E
101:6B:111:1E
M_UATXD0
M_UARXD0
NOT MOUNT
NOT MOUNT
R2111
104:6D
D_JTAG_TCK
[RMX4A]
RM211
104:6D
104:6D
104:6D
104:6D
D_JTAG_TMS
D_JTAG_TRST_N
D_JTAG_TDI
D_JTAG_TDO
0 (X)
NOT MOUNT
FL217 60ohm
DEBUG SIO / JTAG CONNECTOR DEBUG BOARD
116:7E
M_DEBUG_ON
101:2B:108:8B:118:5B
M_GRESET_N
108:1B
EJRESET
TP002
TP003
117:6D
M_CE3
117:6C:118:5B:405:2C
117:6C:118:5B:405:2D
117:6C:118:5B:405:2D
117:6C:118:5B:405:2D
M_SBD0
M_SBD1
M_SBD2
M_SBD3
117:6C:118:5B:405:2D
117:6C:118:5B:405:2D
117:6C:118:5B:405:2D
117:6C:118:5B:405:2D
M_SBD4
M_SBD5
M_SBD6
M_SBD7
117:6E:118:5B:400:3C
117:6E:118:5B:400:3C
SBADD0と SHARE
117:6D
117:6D:118:5C:404:3B
M_WE
M_OE
M_CE1
M_BE0
116:7E:118:5C:404:3B
116:7E:118:5C:404:3B
116:7E:118:5C:404:3B
116:7E:118:5C:404:3B
M_SBA1
M_SBA2
M_SBA3
M_SBA4
116:7E:118:5C:404:3B
116:7E:118:5C:404:3B
116:7E:118:5C:404:3C
116:7D:118:1B:118:5C:404:3C
M_SBA5
M_SBA6
M_SBA7
M_SBA8
116:7D:118:1B:118:5C:404:3C
116:7D:118:1B:118:5C:404:3C
116:7D:118:1B:118:5C:404:3C
116:7D:118:1B:118:5C:404:3C
M_SBA9
M_SBA10
M_SBA11
M_SBA12
116:7D:118:1B:118:5D:404:3C
116:7D:118:1B:118:5D:404:3C
116:7D:118:1B:118:5D:400:3C
M_SBA13
M_SBA14
M_SBA15
102:2C:400:3C
101:2C
M_SBACK
M_INT_LAN
TP101
TP102
TP103
TP104
TP105
TP106
TP107
TP108
TP109
TP110
TP111
TP112
TP113
TP114
TP115
TP116
TP117
TP118
TP119
TP120
TP121
TP122
TP123
TP124
TP125
TP126
TP127
TP128
TP129
TP130
TP131
TP132
TP133
TP134
TP135
TP136
TP137
TP138
TP139
TP140
TP141
TP142
TP143
TP144
TP145
TP146
TP147
TP148
TP149
TP150
[TP]
GND

U05A EU_DIGITAL [111] SERIAL/EJTAG (PE0284)

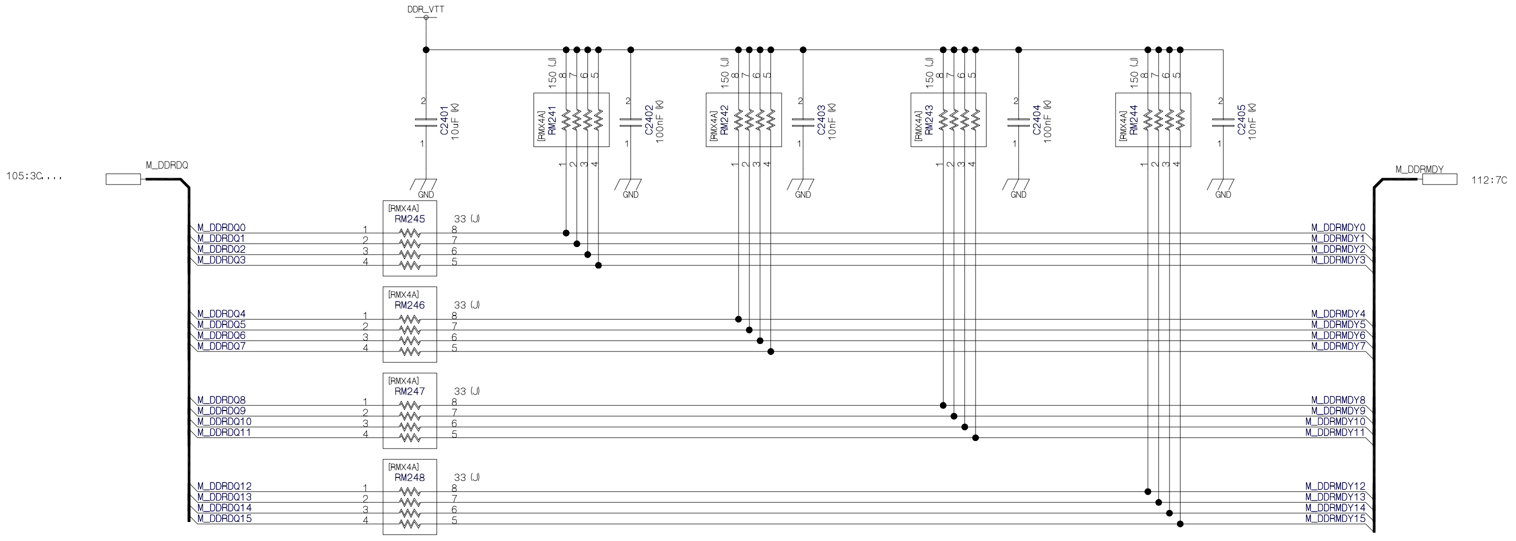

1
2
3
4
5
6
7
8
A
B
C
D
E
F
TSOP II
[MDSD16M16]
IC221
V46A00009100
HYB25DC256160CE-6
113:7B, 113, 7D
M_DDRADY
M_DDRADY0
M_DDRADY1
M_DDRADY2
M_DDRADY3
M_DDRADY4
M_DDRADY5
M_DDRADY6
M_DDRADY7
M_DDRADY8
M_DDRADY9
M_DDRADY10
M_DDRADY11
M_DDRADY12
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10/AP
A11
A12
113:7D
M_DDRCMD
M_DDRABA1
M_DDRABA0
M_DDRACLKB0
M_DDRACLK0
M_DDRACKE
BS1
BS0
CLK
CLK
CKE
GND
CS
RAS
CAS
WE
LDM
UDM
LDQS
UDQS
M_DDRARAS
M_DDRACAS
M_DDRAWE
M_DDRADM0
M_DDRADM1
M_DDRADQS0
M_DDRADQS1
R2201
R2202
R2203
R2204
33 (J)
NC
2.5V-Reg
[VDDQ]
[VDD]
[VREF]
[VSSQ]
[VSS]
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15
M_DDRMDY
114:7B
M_DDRMDY0
M_DDRMDY1
M_DDRMDY2
M_DDRMDY3
M_DDRMDY4
M_DDRMDY5
M_DDRMDY6
M_DDRMDY7
M_DDRMDY8
M_DDRMDY9
M_DDRMDY10
M_DDRMDY11
M_DDRMDY12
M_DDRMDY13
M_DDRMDY14
M_DDRMDY15
RM221
RM222
RM223
RM224
[RMX4A]
33 (J)
105:3D:115:6C
M_DDRVREF
47pF (J)
C2207
GND
C2201
C2202
C2203
C2204
C2205
C2206
100nF (K)
C2208
C2209
C2210
C2211
C2212
C2213
10nF (K)

U05A EU_DIGITAL [112] DDR1 SDRAM (PE0284)

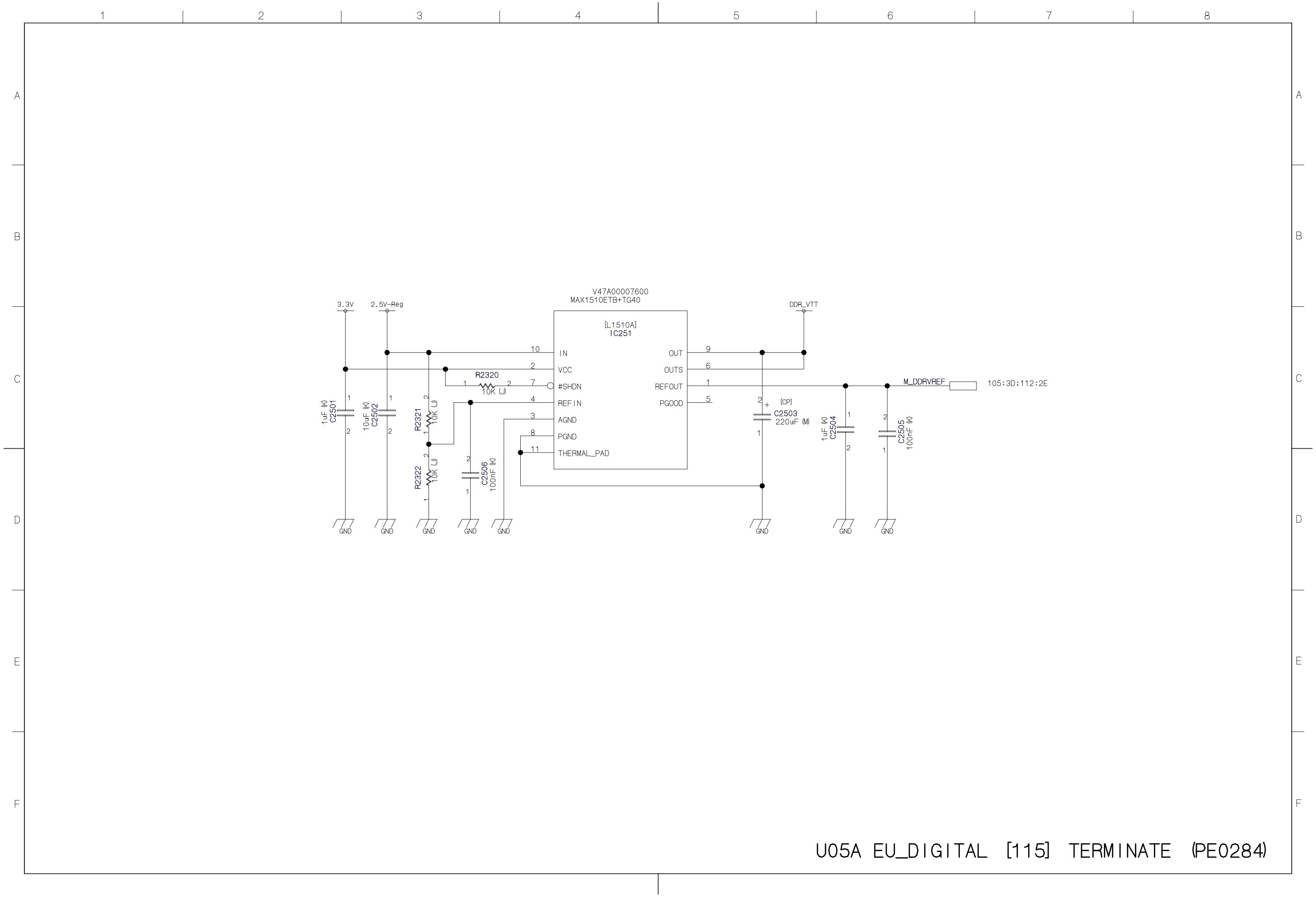

DDR_VTT
NOT MOUNT
C2301 10uF (K)
RM230 [RMX4A] 150 (J)
C2302 100nF (K)
RM231 [RMX4A] 150 (J)
C2303 10nF (K)
RM232 [RMX4A] 150 (J)
C2304 100nF (K)
R2301 150 (J)
GND
105:6C...
M_DDRA
M_DDRMDY
112:2A:113:7D
M_DDRAD0
M_DDRAD1
M_DDRAD2
M_DDRAD3
RM233 [RMX4A] 33 (J)
M_DDRAD4
M_DDRAD5
M_DDRAD6
M_DDRAD7
RM234 [RMX4A] 33 (J)
M_DDRAD8
M_DDRAD9
M_DDRAD11
RM235 [RMX4A] 33 (J)
M_DDRAD12
R2308 33 (J)
M_DDRAD10
R2319 33 (J)
M_DDRADY0
M_DDRADY1
M_DDRADY2
M_DDRADY3
M_DDRADY4
M_DDRADY5
M_DDRADY6
M_DDRADY7
M_DDRADY8
M_DDRADY9
M_DDRADY11
M_DDRADY12
M_DDRADY10
C2305 10uF (K)
R2318 150 (J)
RM236 [RMX4A] 150 (J)
C2306 100nF (K)
C2307 10nF (K)
RM237 [RMX4A] 150 (J)
R2316 150 (J)
R2315 150 (J)
C2308 100nF (K)
R2309 150 (J)
R2310 150 (J)
C2309 10nF (K)
R2302 150 (J)
R2303 150 (J)
C2310 100nF (K)
105:6D...
M_DDRCMD
M_DDRACMD
112:2B...
M_DDRCKE
R2317 33 (J)
RM239 [RMX4A] 33 (J)
M_DDRRAS
M_DDRCAS
M_DDRWE
M_DDRBA0
M_DDRBA1
M_DDRDQS0
M_DDRDQS1
R2311 33 (J)
R2312 33 (J)
R2313 33 (J)
R2314 33 (J)
M_DDRDM0
R2304 33 (J)
M_DDRDM1
R2305 33 (J)
M_DDRCLK0
R2306 33 (J)
M_DDRCLKB0
R2307 33 (J)
M_DDRACKE
M_DDRARAS
M_DDRACAS
M_DDRAWE
M_DDRABA0
M_DDRABA1
M_DDRADQS0
M_DDRADQS1
M_DDRADM0
M_DDRADM1
M_DDRACLK0
M_DDRACLKB0
1
2
3
4
5
6
7
8
A
B
C
D
E
F

DB_#1

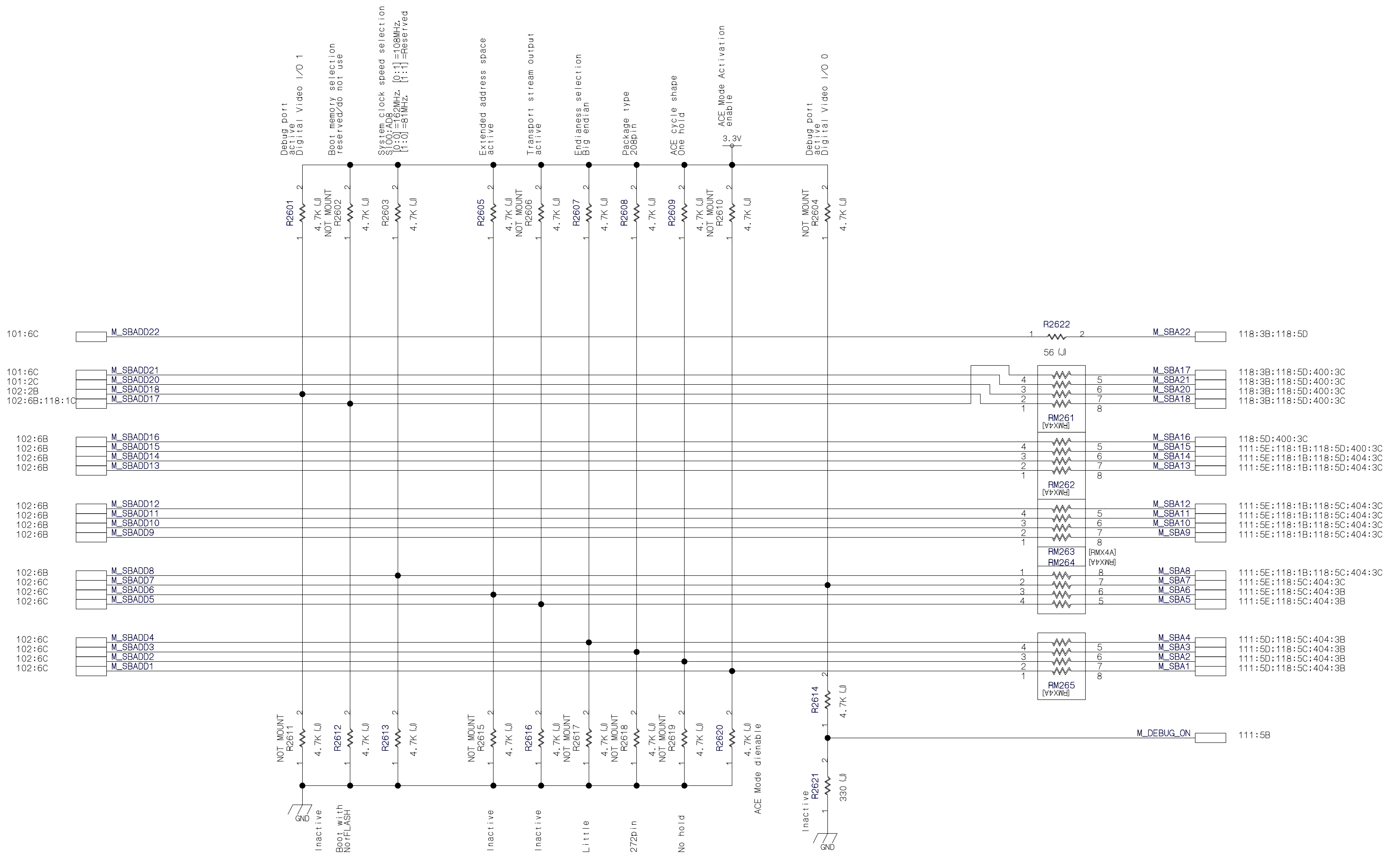
U05A EU_DIGITAL [113] TERMINATE (PE0284)


DDR_VTT
C2401
10uF (K)
GND
[RMX4A]
RM241
150 (J)
C2402
100nF (K)
[RMX4A]
RM242
150 (J)
C2403
10nF (K)
[RMX4A]
RM243
150 (J)
C2404
100nF (K)
[RMX4A]
RM244
150 (J)
C2405
10nF (K)
105:3C...
M_DDRDQ
M_DDRMDY
112:7C
[RMX4A]
RM245
33 (J)
M_DDRDQ0
M_DDRDQ1
M_DDRDQ2
M_DDRDQ3
[RMX4A]
RM246
33 (J)
M_DDRDQ4
M_DDRDQ5
M_DDRDQ6
M_DDRDQ7
[RMX4A]
RM247
33 (J)
M_DDRDQ8
M_DDRDQ9
M_DDRDQ10
M_DDRDQ11
[RMX4A]
RM248
33 (J)
M_DDRDQ12
M_DDRDQ13
M_DDRDQ14
M_DDRDQ15
M_DDRMDY0
M_DDRMDY1
M_DDRMDY2
M_DDRMDY3
M_DDRMDY4
M_DDRMDY5
M_DDRMDY6
M_DDRMDY7
M_DDRMDY8
M_DDRMDY9
M_DDRMDY10
M_DDRMDY11
M_DDRMDY12
M_DDRMDY13
M_DDRMDY14
M_DDRMDY15

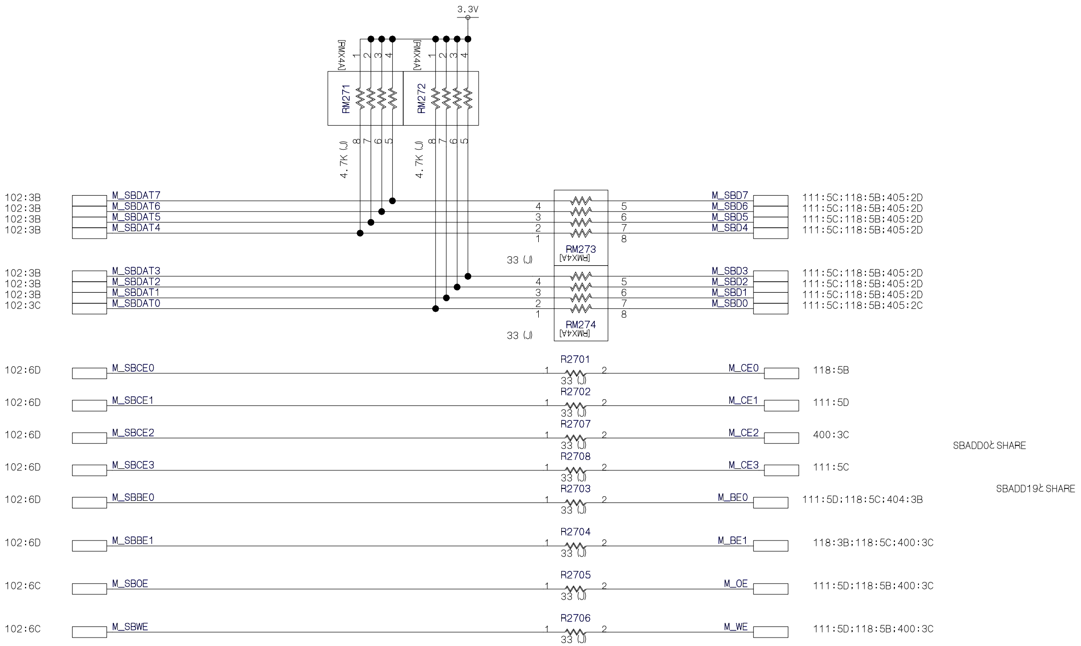
U05A EU_DIGITAL [114] TERMINATE (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
V47A00007600
MAX1510ETB+TG40
[L1510A]
IC251
3.3V
2.5V-Reg
DDR_VTT
10 IN
2 VCC
7 #SHDN
4 REFIN
3 AGND
8 PGND
11 THERMAL_PAD
OUT 9
OUTS 6
REFOUT 1
PGOOD 5
R2320
10K (J)
R2321
10K (J)
R2322
10K (J)
C2501
1uF (K)
C2502
10uF (K)
C2506
100nF (K)
C2503
220uF (M)
[CP]
C2504
1uF (K)
C2505
100nF (K)
M_DDRVREF
105:3D:112:2E
GND

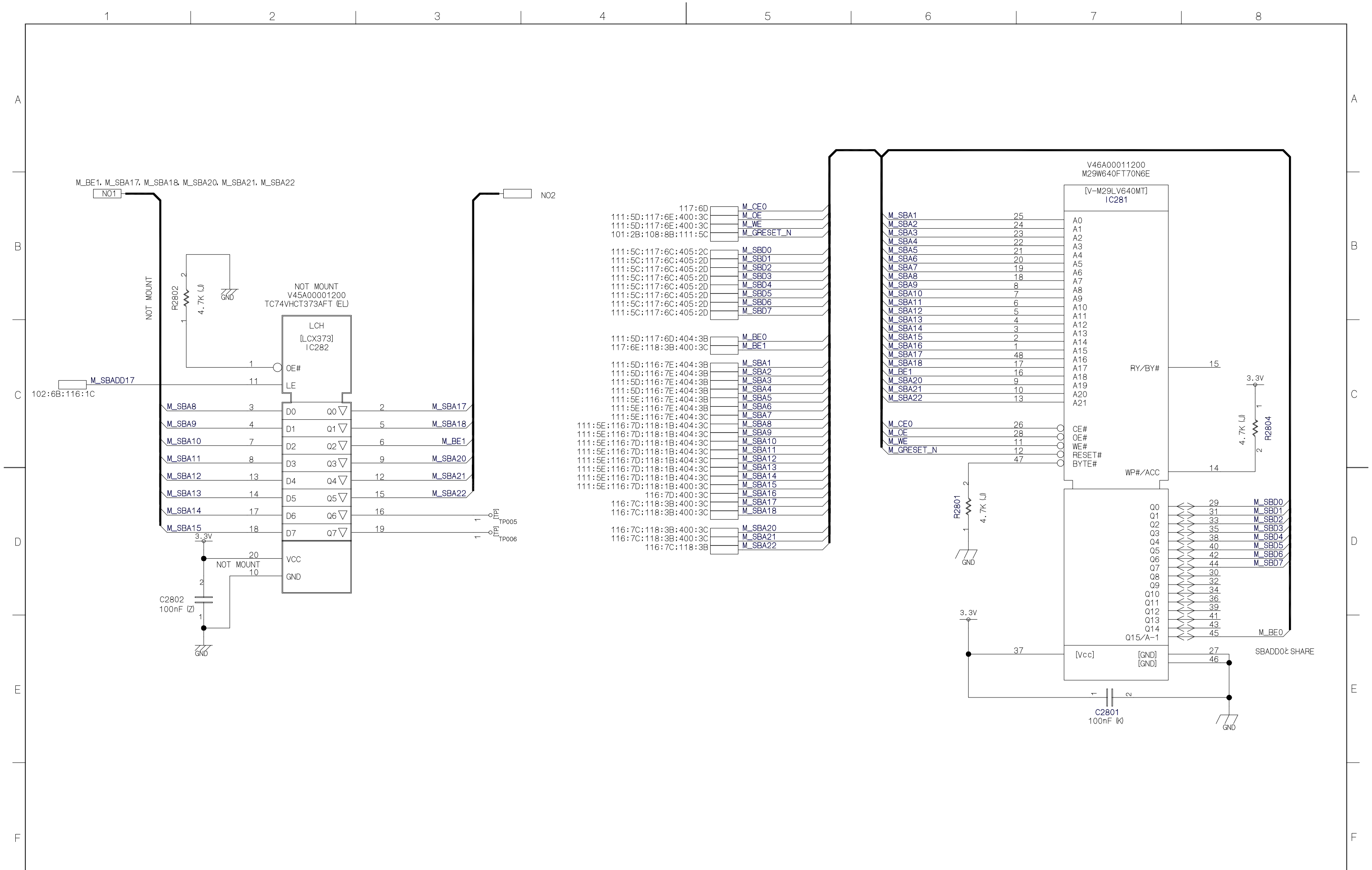
U05A EU_DIGITAL [115] TERMINATE (PE0284)


Debug port
active
Digital Video I/O 1
Boot memory selection
reserved/do not use
System clock speed selection
SI00:AD8
[0:0] =162MHz, [0:1] =108MHz,
[1:0] =81MHz, [1:1] =Reserved
Extended address space
active
Transport stream output
active
Endianess selection
Big endian
Package type
208pin
ACE cycle shape
One hold
ACE Mode Activation
enable
3.3V
Debug port
active
Digital Video I/O 0
R2601 4.7K (J)
NOT MOUNT R2602 4.7K (J)
R2603 4.7K (J)
R2605 4.7K (J)
NOT MOUNT R2606 4.7K (J)
R2607 4.7K (J)
R2608 4.7K (J)
R2609 4.7K (J)
NOT MOUNT R2610 4.7K (J)
NOT MOUNT R2604 4.7K (J)
101:6C
M_SBADD22
R2622
56 (J)
M_SBA22
118:3B;118:5D
101:6C
101:2C
102:2B
102:6B;118:1C
M_SBADD21
M_SBADD20
M_SBADD18
M_SBADD17
RM261
[RMX4A]
M_SBA17
M_SBA21
M_SBA20
M_SBA18
118:3B;118:5D;400:3C
118:3B;118:5D;400:3C
118:3B;118:5D;400:3C
118:3B;118:5D;400:3C
102:6B
102:6B
102:6B
102:6B
M_SBADD16
M_SBADD15
M_SBADD14
M_SBADD13
RM262
[RMX4A]
M_SBA16
M_SBA15
M_SBA14
M_SBA13
118:5D;400:3C
111:5E;118:1B;118:5D;400:3C
111:5E;118:1B;118:5D;404:3C
111:5E;118:1B;118:5D;404:3C
102:6B
102:6B
102:6B
102:6B
M_SBADD12
M_SBADD11
M_SBADD10
M_SBADD9
RM263 [RMX4A]
RM264 [RMX4A]
M_SBA12
M_SBA11
M_SBA10
M_SBA9
111:5E;118:1B;118:5C;404:3C
111:5E;118:1B;118:5C;404:3C
111:5E;118:1B;118:5C;404:3C
111:5E;118:1B;118:5C;404:3C
102:6B
102:6C
102:6C
102:6C
M_SBADD8
M_SBADD7
M_SBADD6
M_SBADD5
M_SBA8
M_SBA7
M_SBA6
M_SBA5
111:5E;118:1B;118:5C;404:3C
111:5E;118:5C;404:3C
111:5E;118:5C;404:3B
111:5E;118:5C;404:3B
102:6C
102:6C
102:6C
102:6C
M_SBADD4
M_SBADD3
M_SBADD2
M_SBADD1
RM265
[RMX4A]
M_SBA4
M_SBA3
M_SBA2
M_SBA1
111:5D;118:5C;404:3B
111:5D;118:5C;404:3B
111:5D;118:5C;404:3B
111:5D;118:5C;404:3B
R2614 4.7K (J)
M_DEBUG_ON
111:5B
R2621 330 (J)
NOT MOUNT R2611 4.7K (J)
R2612 4.7K (J)
R2613 4.7K (J)
NOT MOUNT R2615 4.7K (J)
R2616 4.7K (J)
NOT MOUNT R2617 4.7K (J)
NOT MOUNT R2618 4.7K (J)
NOT MOUNT R2619 4.7K (J)
R2620 4.7K (J)
ACE Mode dienable
GND
Inactive
Boot with
NorFLASH
Inactive
Inactive
Little
272pin
No hold
Inactive
GND
DB_#1

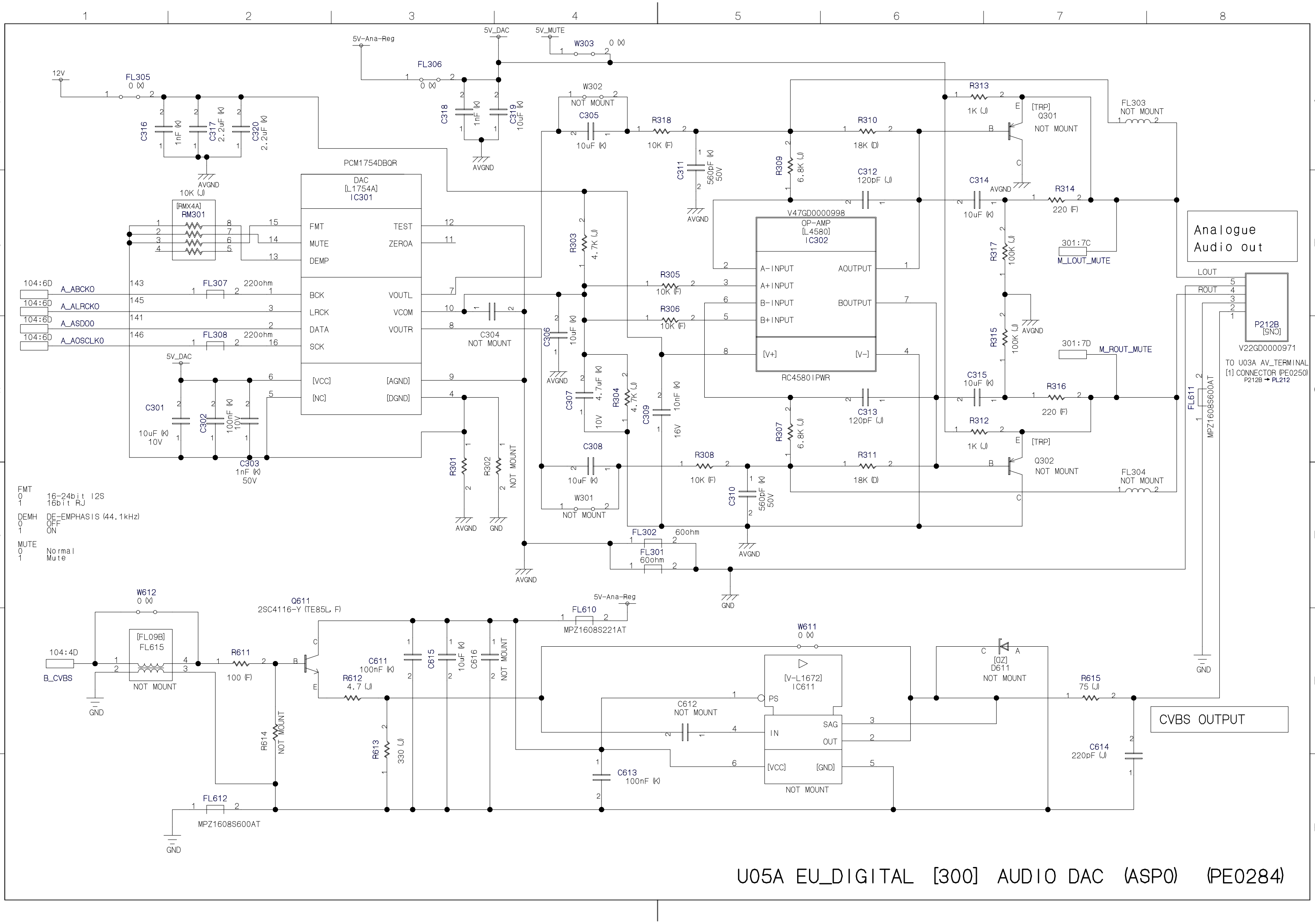
U05A EU_DIGITAL [116] PIN CONFIG (PE0284)


3.3V
RM271
[RMX4A]
4.7K (J)
RM272
[RMX4A]
4.7K (J)
102:3B
M_SBDAT7
102:3B
M_SBDAT6
102:3B
M_SBDAT5
102:3B
M_SBDAT4
RM273
[RMX4A]
33 (J)
M_SBD7
111:5C;118:5B;405:2D
M_SBD6
111:5C;118:5B;405:2D
M_SBD5
111:5C;118:5B;405:2D
M_SBD4
111:5C;118:5B;405:2D
102:3B
M_SBDAT3
102:3B
M_SBDAT2
102:3B
M_SBDAT1
102:3C
M_SBDAT0
RM274
[RMX4A]
33 (J)
M_SBD3
111:5C;118:5B;405:2D
M_SBD2
111:5C;118:5B;405:2D
M_SBD1
111:5C;118:5B;405:2D
M_SBD0
111:5C;118:5B;405:2C
102:6D
M_SBCE0
R2701
33 (J)
M_CE0
118:5B
102:6D
M_SBCE1
R2702
33 (J)
M_CE1
111:5D
102:6D
M_SBCE2
R2707
33 (J)
M_CE2
400:3C
SBADD0とSHARE
102:6D
M_SBCE3
R2708
33 (J)
M_CE3
111:5C
SBADD19とSHARE
102:6D
M_SBBE0
R2703
33 (J)
M_BE0
111:5D;118:5C;404:3B
102:6D
M_SBBE1
R2704
33 (J)
M_BE1
118:3B;118:5C;400:3C
102:6C
M_SBOE
R2705
33 (J)
M_OE
111:5D;118:5B;400:3C
102:6C
M_SBWE
R2706
33 (J)
M_WE
111:5D;118:5B;400:3C

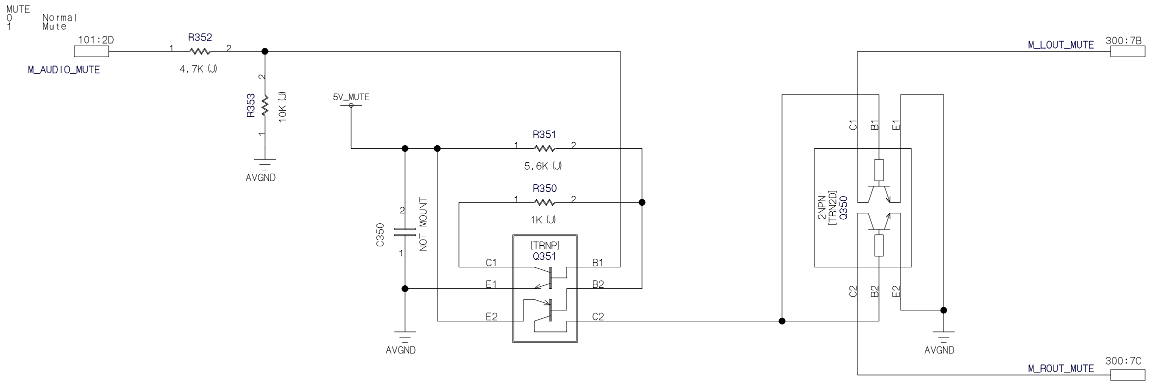
U05A EU_DIGITAL [117] SBD REGISTER (PE0284)


M_BE1, M_SBA17, M_SBA18, M_SBA20, M_SBA21, M_SBA22
NO1
NO2
NOT MOUNT
R2802
4.7K (J)
GND
NOT MOUNT
V45A00001200
TC74VHCT373AFT (EL)
LCH
[LCX373]
IC282
OE#
LE
M_SBADD17
102:6B:116:1C
M_SBA8
M_SBA9
M_SBA10
M_SBA11
M_SBA12
M_SBA13
M_SBA14
M_SBA15
D0 D1 D2 D3 D4 D5 D6 D7
Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7
M_SBA17
M_SBA18
M_BE1
M_SBA20
M_SBA21
M_SBA22
TP005
TP006
3.3V
VCC
GND
NOT MOUNT
C2802
100nF (Z)
117:6D M_CE0
111:5D:117:6E:400:3C M_OE
111:5D:117:6E:400:3C M_WE
101:2B:108:8B:111:5C M_GRESET_N
111:5C:117:6C:405:2C M_SBD0
111:5C:117:6C:405:2D M_SBD1
111:5C:117:6C:405:2D M_SBD2
111:5C:117:6C:405:2D M_SBD3
111:5C:117:6C:405:2D M_SBD4
111:5C:117:6C:405:2D M_SBD5
111:5C:117:6C:405:2D M_SBD6
111:5C:117:6C:405:2D M_SBD7
111:5D:117:6D:404:3B M_BE0
117:6E:118:3B:400:3C M_BE1
111:5D:116:7E:404:3B M_SBA1
111:5D:116:7E:404:3B M_SBA2
111:5D:116:7E:404:3B M_SBA3
111:5D:116:7E:404:3B M_SBA4
111:5E:116:7E:404:3B M_SBA5
111:5E:116:7E:404:3B M_SBA6
111:5E:116:7E:404:3B M_SBA7
111:5E:116:7D:118:1B:404:3C M_SBA8
111:5E:116:7D:118:1B:404:3C M_SBA9
111:5E:116:7D:118:1B:404:3C M_SBA10
111:5E:116:7D:118:1B:404:3C M_SBA11
111:5E:116:7D:118:1B:404:3C M_SBA12
111:5E:116:7D:118:1B:404:3C M_SBA13
111:5E:116:7D:118:1B:404:3C M_SBA14
111:5E:116:7D:118:1B:400:3C M_SBA15
116:7D:400:3C M_SBA16
116:7C:118:3B:400:3C M_SBA17
116:7C:118:3B:400:3C M_SBA18
116:7C:118:3B:400:3C M_SBA20
116:7C:118:3B:400:3C M_SBA21
116:7C:118:3B M_SBA22
V46A00011200
M29W640FT70N6E
[V-M29LV640MT]
IC281
A0–A21
RY/BY#
CE#
OE#
WE#
RESET#
BYTE#
WP#/ACC
M_CE0
M_OE
M_WE
M_GRESET_N
R2801
4.7K (J)
R2804
4.7K (J)
3.3V
Q0–Q14
Q15/A-1
M_SBD0
M_SBD1
M_SBD2
M_SBD3
M_SBD4
M_SBD5
M_SBD6
M_SBD7
M_BE0
SBADD0と SHARE
[Vcc]
[GND]
[GND]
C2801
100nF (K)
GND
1 2 3 4 5 6 7 8
A B C D E F

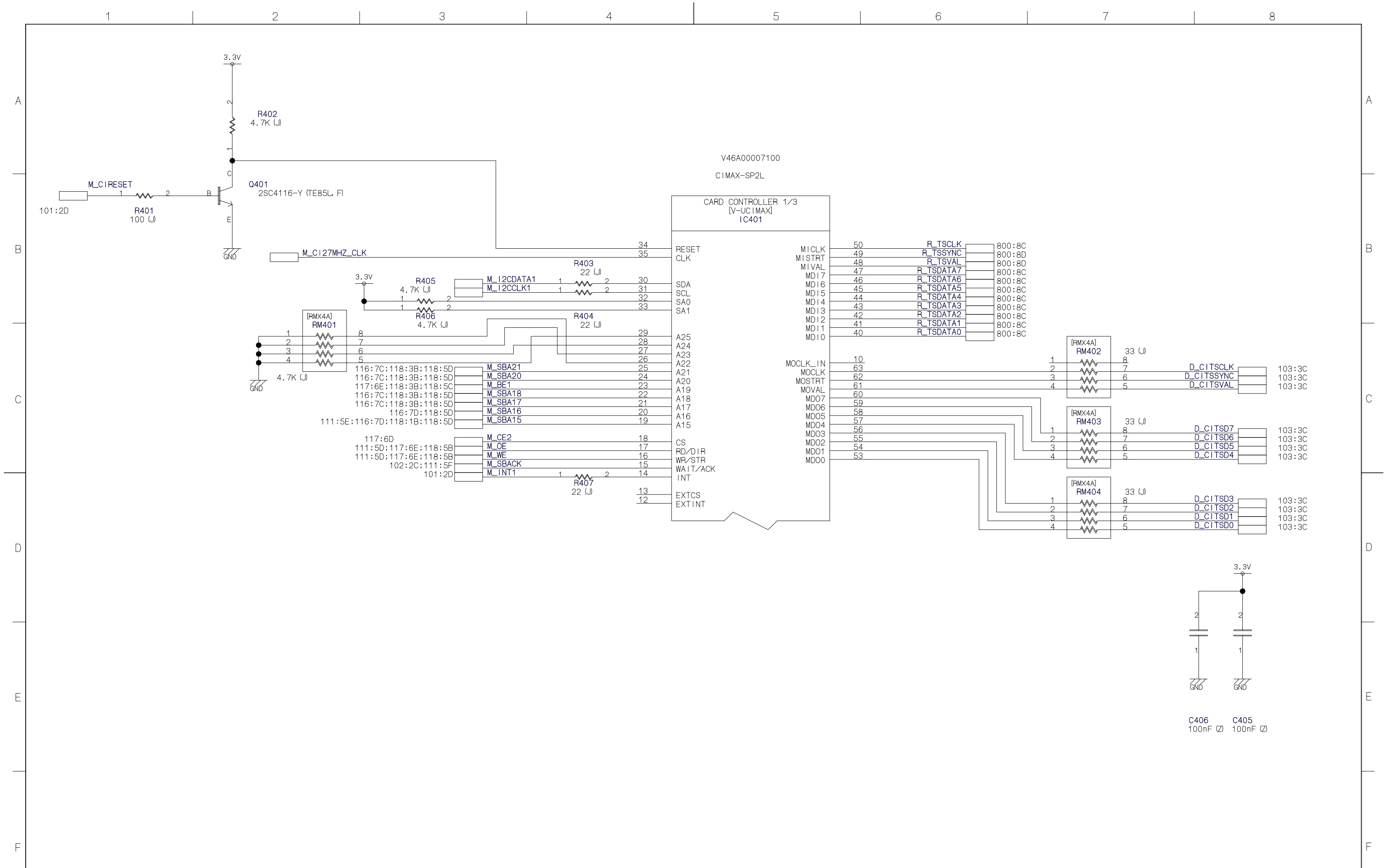
U05A EU_DIGITAL [118] NOR FLASH (PE0284)


12V
FL305 0 (X)
C316 1nF (K)
C317 2.2uF (K)
C320 2.2uF (K)
AVGND
5V-Ana-Reg
FL306 0 (X)
5V_DAC
C318 1nF (K)
C319 10uF (K)
5V_MUTE
W303 0 (X)
W302 NOT MOUNT
C305 10uF (K)
R318 10K (F)
C311 560pF (K) 50V
R309 6.8K (J)
R310 18K (D)
C312 120pF (J)
R313 1K (J)
Q301 [TRP] NOT MOUNT
FL303 NOT MOUNT
C314 10uF (K)
R314 220 (F)
PCM1754DBQR
DAC [L1754A] IC301
FMT
MUTE
DEMP
TEST
ZEROA
BCK
LRCK
DATA
SCK
VOUTL
VCOM
VOUTR
[VCC]
[NC]
[AGND]
[DGND]
10K (J)
[RMX4A] RM301
104:6D A_ABCKO
104:6D A_ALRCKO
104:6D A_ASDO0
104:6D A_AOSCLKO
FL307 220ohm
FL308 220ohm
R303 4.7K (J)
R305 10K (F)
R306 10K (F)
V47GD0000998
OP-AMP [L4580] IC302
A-INPUT
A+INPUT
B-INPUT
B+INPUT
AOUTPUT
BOUTPUT
[V+]
[V-]
RC4580IPWR
R317 100K (J)
R315 100K (J)
301:7C M_LOUT_MUTE
301:7D M_ROUT_MUTE
Analogue Audio out
LOUT
ROUT
P212B [SNO]
V22GD0000971
TO U03A AV_TERMINAL [1] CONNECTOR (PE0250)
P212B → PL212
C304 NOT MOUNT
C306 10uF (K)
C307 4.7uF (K) 10V
R304 4.7K (J)
C309 10nF (K) 16V
C301 10uF (K) 10V
C302 100nF (K) 10V
C303 1nF (K) 50V
5V_DAC
R301
R302 NOT MOUNT
GND
C315 10uF (K)
R316 220 (F)
C313 120pF (J)
R312 1K (J)
Q302 [TRP] NOT MOUNT
R307 6.8K (J)
R308 10K (F)
R311 18K (D)
C308 10uF (K)
W301 NOT MOUNT
C310 560pF (K) 50V
FL304 NOT MOUNT
FL611 MPZ1608S600AT
FL302 60ohm
FL301 60ohm
FMT
0 16-24bit I2S
1 16bit RJ
DEMH DE-EMPHASIS (44.1kHz)
0 OFF
1 ON
MUTE
0 Normal
1 Mute
W612 0 (X)
104:4D B_CVBS
[FL09B] FL615 NOT MOUNT
Q611 2SC4116-Y (TE85L, F)
R611 100 (F)
R612 4.7 (J)
R614 NOT MOUNT
R613 330 (J)
C611 100nF (K)
C615 10uF (K)
C616 NOT MOUNT
FL610 MPZ1608S221AT
5V-Ana-Reg
FL612 MPZ1608S600AT
W611 0 (X)
[V-L1672] IC611
PS
IN
SAG
OUT
[VCC]
[GND]
NOT MOUNT
C612 NOT MOUNT
C613 100nF (K)
[GZ] D611 NOT MOUNT
R615 75 (J)
C614 220pF (J)
CVBS OUTPUT
1
2
3
4
5
6
7
8
A
B
C
D
E
F

U05A EU_DIGITAL [300] AUDIO DAC (ASP0) (PE0284)

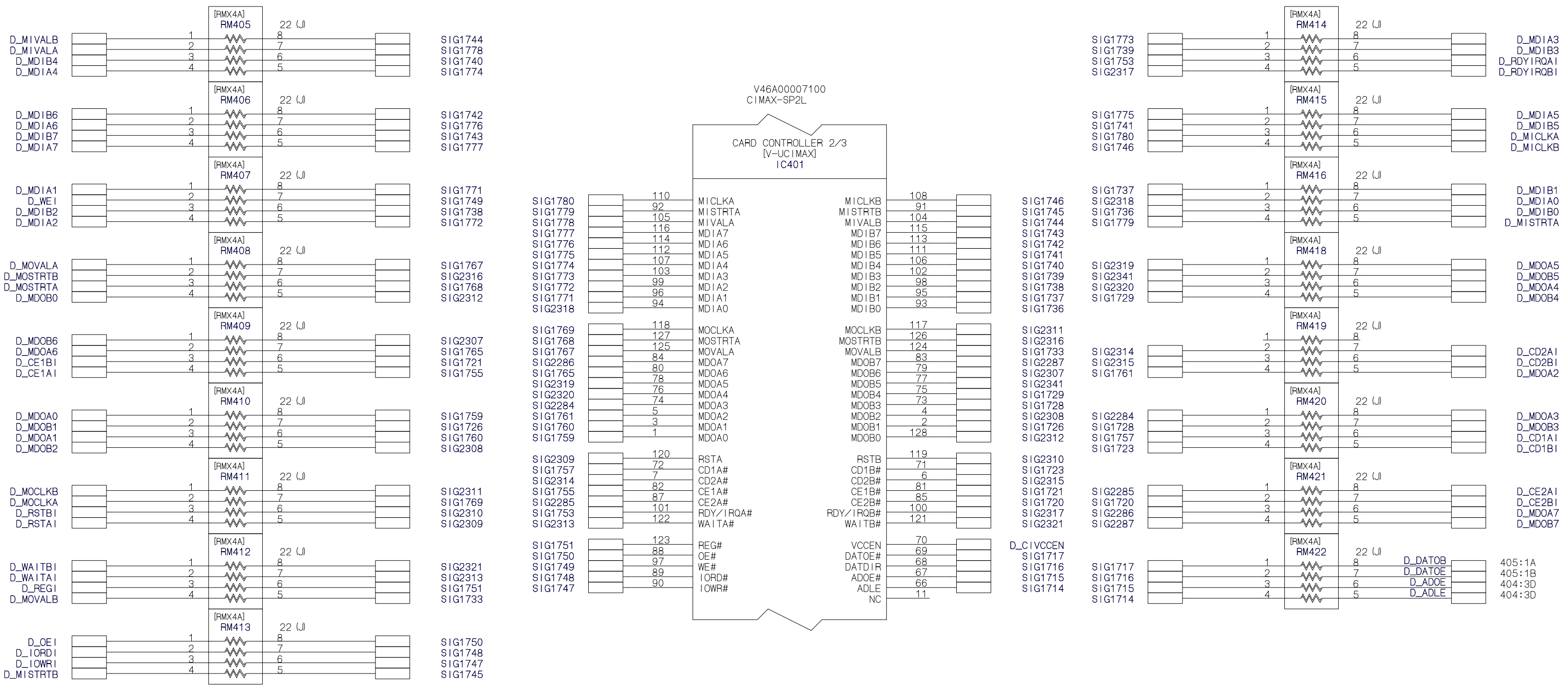

MUTE
0 Normal
1 Mute
101:2D
M_AUDIO_MUTE
R352
1
2
4.7K (J)
R353
2
1
10K (J)
AVGND
5V_MUTE
R351
1
2
5.6K (J)
R350
1
2
1K (J)
C350
2
1
NOT MOUNT
[TRNP]
Q351
C1
E1
E2
B1
B2
C2
AVGND
2NPN
[TRN2D]
Q350
C1
B1
E1
C2
B2
E2
AVGND
M_LOUT_MUTE
300:7B
M_ROUT_MUTE
300:7C

U05A EU_DIGITAL [301] AUDIO MUTE (PE0284)

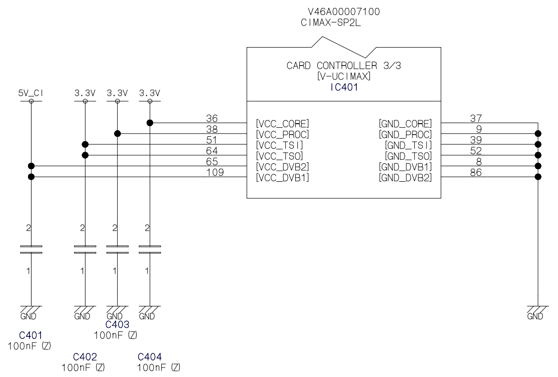


1 2 3 4 5 6 7 8
A B C D E F
3.3V
R402
4.7K (J)
M_CIRESET
101:2D
R401
100 (J)
Q401
2SC4116-Y (TE85L, F)
B C E
GND
V46A00007100
CIMAX-SP2L
CARD CONTROLLER 1/3
[V-UCIMAX]
IC401
M_CI27MHZ_CLK
34 RESET
35 CLK
R403
22 (J)
M_I2CDATA1
M_I2CCLK1
30 SDA
31 SCL
32 SA0
33 SA1
R405
4.7K (J)
R406
4.7K (J)
R404
22 (J)
[RMX4A]
RM401
4.7K (J)
29 A25
28 A24
27 A23
26 A22
25 A21
24 A20
23 A19
22 A18
21 A17
20 A16
19 A15
116:7C:118:3B:118:5D M_SBA21
116:7C:118:3B:118:5D M_SBA20
117:6E:118:3B:118:5C M_BE1
116:7C:118:3B:118:5D M_SBA18
116:7C:118:3B:118:5D M_SBA17
116:7D:118:5D M_SBA16
111:5E:116:7D:118:1B:118:5D M_SBA15
117:6D M_CE2
111:5D:117:6E:118:5B M_OE
111:5D:117:6E:118:5B M_WE
102:2C:111:5F M_SBACK
101:2D M_INT1
R407
22 (J)
18 CS
17 RD/DIR
16 WR/STR
15 WAIT/ACK
14 INT
13 EXTCS
12 EXTINT
MICLK 50 R_TSCLK 800:8C
MISTRT 49 R_TSSYNC 800:8D
MIVAL 48 R_TSVAL 800:8D
MDI7 47 R_TSDATA7 800:8C
MDI6 46 R_TSDATA6 800:8C
MDI5 45 R_TSDATA5 800:8C
MDI4 44 R_TSDATA4 800:8C
MDI3 43 R_TSDATA3 800:8C
MDI2 42 R_TSDATA2 800:8C
MDI1 41 R_TSDATA1 800:8C
MDI0 40 R_TSDATA0 800:8C
MOCLK_IN 10
MOCLK 63
MOSTRT 62
MOVAL 61
MDO7 60
MDO6 59
MDO5 58
MDO4 57
MDO3 56
MDO2 55
MDO1 54
MDO0 53
[RMX4A]
RM402
33 (J)
D_CITSCLK 103:3C
D_CITSSYNC 103:3C
D_CITSVAL 103:3C
[RMX4A]
RM403
33 (J)
D_CITSD7 103:3C
D_CITSD6 103:3C
D_CITSD5 103:3C
D_CITSD4 103:3C
[RMX4A]
RM404
33 (J)
D_CITSD3 103:3C
D_CITSD2 103:3C
D_CITSD1 103:3C
D_CITSD0 103:3C
3.3V
GND
C406
100nF (Z)
C405
100nF (Z)

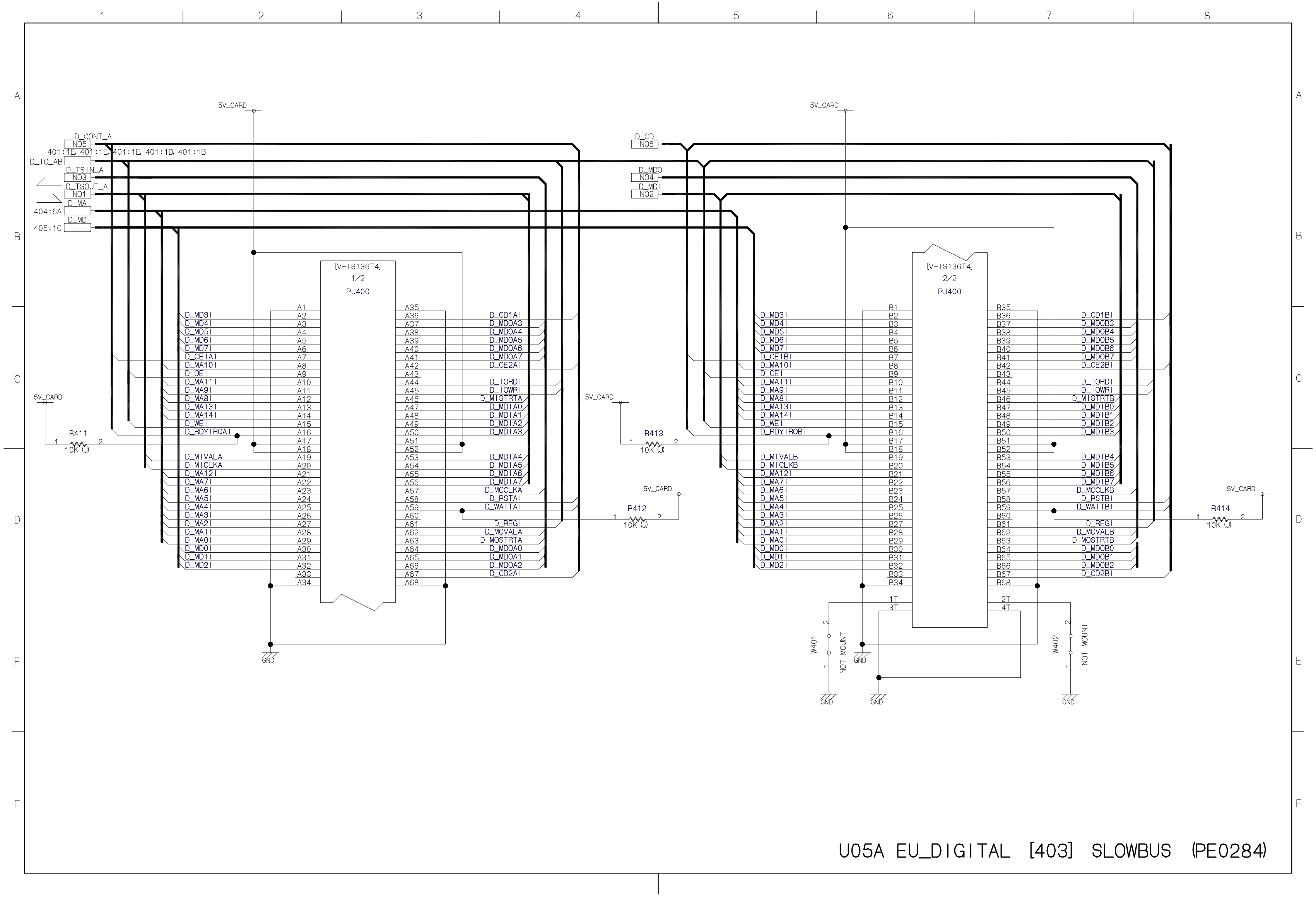
U05A EU_DIGITAL [400] CIMAX (PE0284)


[RMX4A]
RM405
22 (J)
D_MIVALB
D_MIVALA
D_MDIB4
D_MDIA4
SIG1744
SIG1778
SIG1740
SIG1774
[RMX4A]
RM406
22 (J)
D_MDIB6
D_MDIA6
D_MDIB7
D_MDIA7
SIG1742
SIG1776
SIG1743
SIG1777
[RMX4A]
RM407
22 (J)
D_MDIA1
D_WEI
D_MDIB2
D_MDIA2
SIG1771
SIG1749
SIG1738
SIG1772
[RMX4A]
RM408
22 (J)
D_MOVALA
D_MOSTRTB
D_MOSTRTA
D_MDOB0
SIG1767
SIG2316
SIG1768
SIG2312
[RMX4A]
RM409
22 (J)
D_MDOB6
D_MDOA6
D_CE1BI
D_CE1AI
SIG2307
SIG1765
SIG1721
SIG1755
[RMX4A]
RM410
22 (J)
D_MDOA0
D_MDOB1
D_MDOA1
D_MDOB2
SIG1759
SIG1726
SIG1760
SIG2308
[RMX4A]
RM411
22 (J)
D_MOCLKB
D_MOCLKA
D_RSTBI
D_RSTAI
SIG2311
SIG1769
SIG2310
SIG2309
[RMX4A]
RM412
22 (J)
D_WAITBI
D_WAITAI
D_REGI
D_MOVALB
SIG2321
SIG2313
SIG1751
SIG1733
[RMX4A]
RM413
22 (J)
D_OEI
D_IORDI
D_IOWRI
D_MISTRTB
SIG1750
SIG1748
SIG1747
SIG1745
V46A00007100
CIMAX-SP2L
CARD CONTROLLER 2/3
[V-UCIMAX]
IC401
SIG1780 110 MICLKA
SIG1779 92 MISTRTA
SIG1778 105 MIVALA
SIG1777 116 MDIA7
SIG1776 114 MDIA6
SIG1775 112 MDIA5
SIG1774 107 MDIA4
SIG1773 103 MDIA3
SIG1772 99 MDIA2
SIG1771 96 MDIA1
SIG2318 94 MDIA0
SIG1769 118 MOCLKA
SIG1768 127 MOSTRTA
SIG1767 125 MOVALA
SIG2286 84 MDOA7
SIG1765 80 MDOA6
SIG2319 78 MDOA5
SIG2320 76 MDOA4
SIG2284 74 MDOA3
SIG1761 5 MDOA2
SIG1760 3 MDOA1
SIG1759 1 MDOA0
SIG2309 120 RSTA
SIG1757 72 CD1A#
SIG2314 7 CD2A#
SIG1755 82 CE1A#
SIG2285 87 CE2A#
SIG1753 101 RDY/IRQA#
SIG2313 122 WAITA#
SIG1751 123 REG#
SIG1750 88 OE#
SIG1749 97 WE#
SIG1748 89 IORD#
SIG1747 90 IOWR#
MICLKB 108 SIG1746
MISTRTB 91 SIG1745
MIVALB 104 SIG1744
MDIB7 115 SIG1743
MDIB6 113 SIG1742
MDIB5 111 SIG1741
MDIB4 106 SIG1740
MDIB3 102 SIG1739
MDIB2 98 SIG1738
MDIB1 95 SIG1737
MDIB0 93 SIG1736
MOCLKB 117 SIG2311
MOSTRTB 126 SIG2316
MOVALB 124 SIG1733
MDOB7 83 SIG2287
MDOB6 79 SIG2307
MDOB5 77 SIG2341
MDOB4 75 SIG1729
MDOB3 73 SIG1728
MDOB2 4 SIG2308
MDOB1 2 SIG1726
MDOB0 128 SIG2312
RSTB 119 SIG2310
CD1B# 71 SIG1723
CD2B# 6 SIG2315
CE1B# 81 SIG1721
CE2B# 85 SIG1720
RDY/IRQB# 100 SIG2317
WAITB# 121 SIG2321
VCCEN 70 D_CIVCCEN
DATOE# 69 SIG1717
DATDIR 68 SIG1716
ADOE# 67 SIG1715
ADLE 66 SIG1714
NC 11
[RMX4A]
RM414
22 (J)
SIG1773
SIG1739
SIG1753
SIG2317
D_MDIA3
D_MDIB3
D_RDYIRQAI
D_RDYIRQBI
[RMX4A]
RM415
22 (J)
SIG1775
SIG1741
SIG1780
SIG1746
D_MDIA5
D_MDIB5
D_MICLKA
D_MICLKB
[RMX4A]
RM416
22 (J)
SIG1737
SIG2318
SIG1736
SIG1779
D_MDIB1
D_MDIA0
D_MDIB0
D_MISTRTA
[RMX4A]
RM418
22 (J)
SIG2319
SIG2341
SIG2320
SIG1729
D_MDOA5
D_MDOB5
D_MDOA4
D_MDOB4
[RMX4A]
RM419
22 (J)
SIG2314
SIG2315
SIG1761
D_CD2AI
D_CD2BI
D_MDOA2
[RMX4A]
RM420
22 (J)
SIG2284
SIG1728
SIG1757
SIG1723
D_MDOA3
D_MDOB3
D_CD1AI
D_CD1BI
[RMX4A]
RM421
22 (J)
SIG2285
SIG1720
SIG2286
SIG2287
D_CE2AI
D_CE2BI
D_MDOA7
D_MDOB7
[RMX4A]
RM422
22 (J)
SIG1717
SIG1716
SIG1715
SIG1714
D_DATOB 405:1A
D_DATOE 405:1B
D_ADOE 404:3D
D_ADLE 404:3D

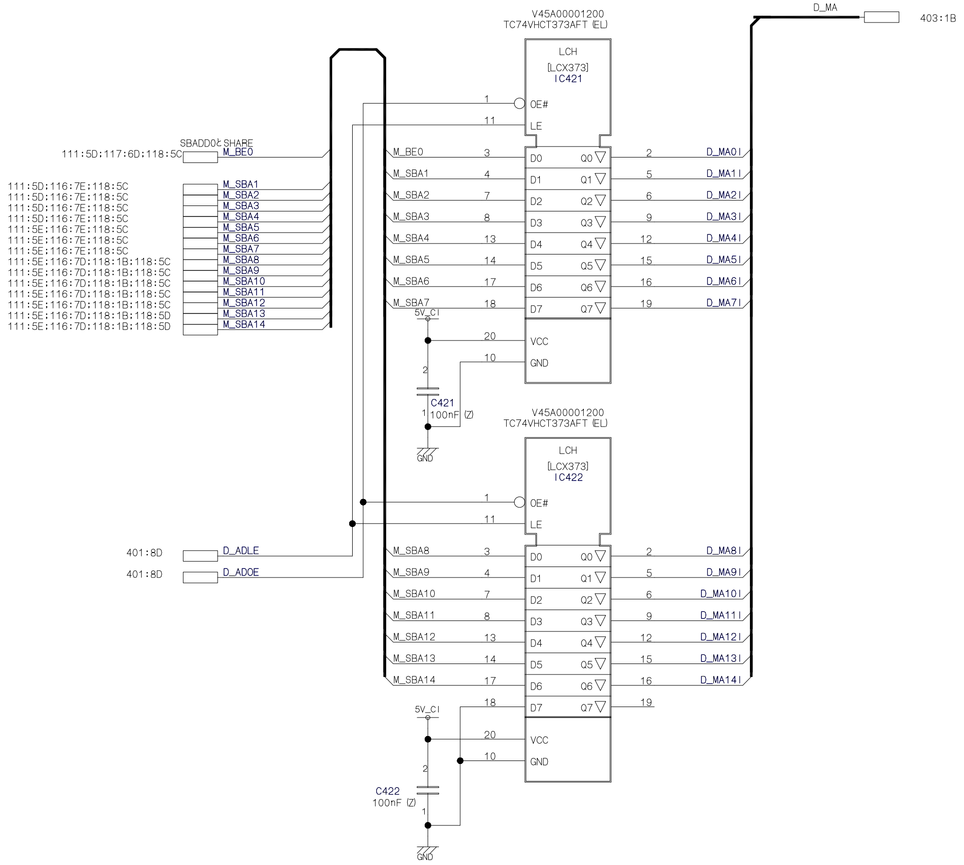
U05A EU_DIGITAL [401] CPLD XILINX (PE0284)


V46A00007100
CIMAX-SP2L
CARD CONTROLLER 3/3
[V-UCIMAX]
IC401
5V_CI
3.3V
3.3V
3.3V
36
38
51
64
65
109
[VCC_CORE]
[VCC_PROC]
[VCC_TSI]
[VCC_TSO]
[VCC_DVB2]
[VCC_DVB1]
[GND_CORE]
[GND_PROC]
[GND_TSI]
[GND_TSO]
[GND_DVB1]
[GND_DVB2]
37
9
39
52
8
86
2
1
GND
GND
GND
GND
GND
C401
100nF (Z)
C402
100nF (Z)
C403
100nF (Z)
C404
100nF (Z)

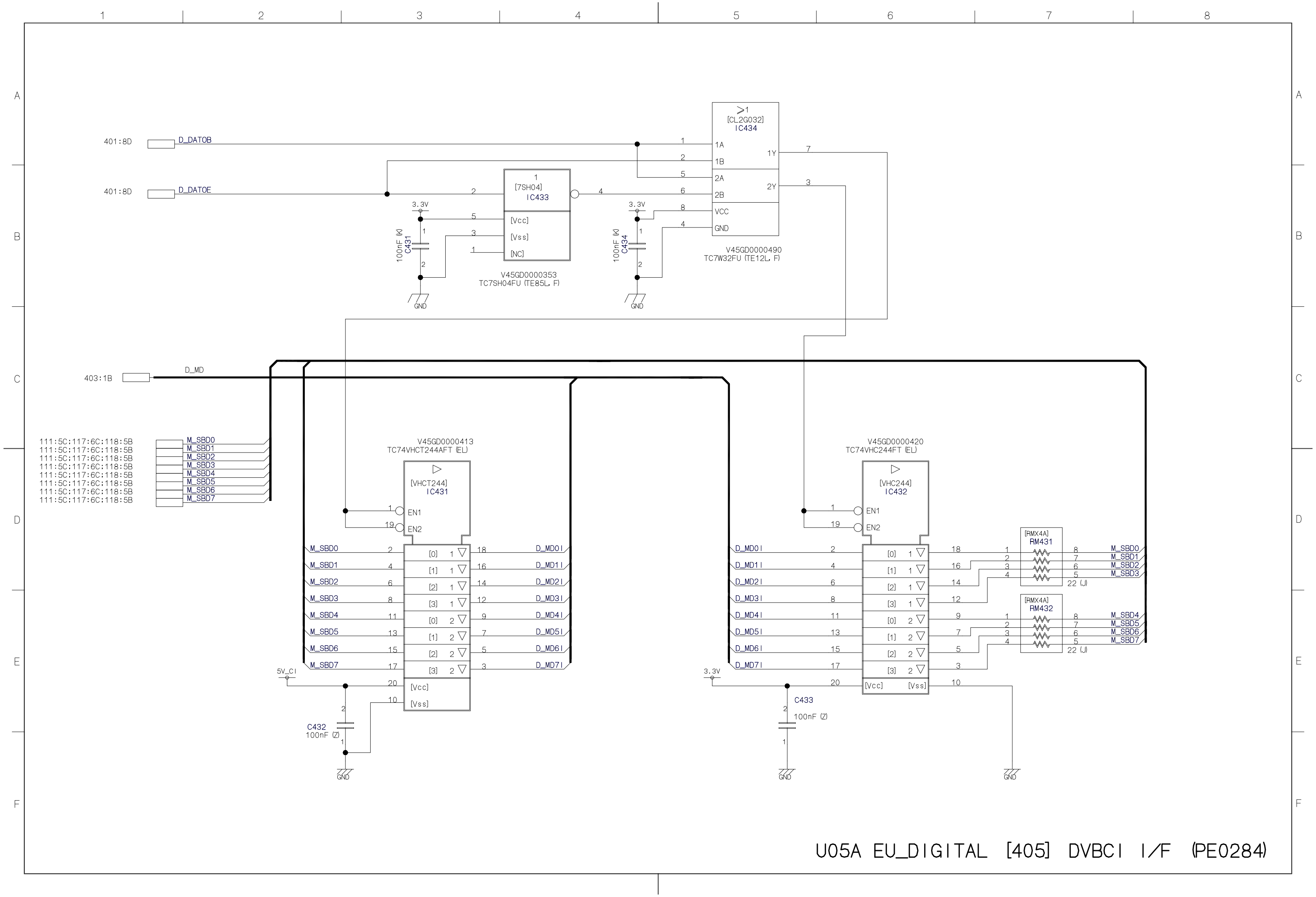
U05A EU_DIGITAL [402] CPLD XILINX (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
5V_CARD
D_CONT_A
N05
401:1E, 401:1E, 401:1E, 401:1D, 401:1B
D_IO_AB
D_TSIN_A
N03
D_TSOUT_A
N01
D_MA
404:6A
D_MD
405:1C
D_CD
N06
D_MDO
N04
D_MDI
N02
[V-IS136T4]
1/2
PJ400
A1
A2 D_MD3I
A3 D_MD4I
A4 D_MD5I
A5 D_MD6I
A6 D_MD7I
A7 D_CE1AI
A8 D_MA10I
A9 D_OEI
A10 D_MA11I
A11 D_MA9I
A12 D_MA8I
A13 D_MA13I
A14 D_MA14I
A15 D_WEI
A16 D_RDYIRQAI
A17
A18
A19 D_MIVALA
A20 D_MICLKA
A21 D_MA12I
A22 D_MA7I
A23 D_MA6I
A24 D_MA5I
A25 D_MA4I
A26 D_MA3I
A27 D_MA2I
A28 D_MA1I
A29 D_MA0I
A30 D_MD0I
A31 D_MD1I
A32 D_MD2I
A33
A34
A35
A36 D_CD1AI
A37 D_MDOA3
A38 D_MDOA4
A39 D_MDOA5
A40 D_MDOA6
A41 D_MDOA7
A42 D_CE2AI
A43
A44 D_IORDI
A45 D_IOWRI
A46 D_MISTRTA
A47 D_MDIA0
A48 D_MDIA1
A49 D_MDIA2
A50 D_MDIA3
A51
A52
A53 D_MDIA4
A54 D_MDIA5
A55 D_MDIA6
A56 D_MDIA7
A57 D_MOCLKA
A58 D_RSTAI
A59 D_WAITAI
A60
A61 D_REGI
A62 D_MOVALA
A63 D_MOSTRTA
A64 D_MDOA0
A65 D_MDOA1
A66 D_MDOA2
A67 D_CD2AI
A68
5V_CARD
R411
1
2
10K (J)
5V_CARD
R412
1
2
10K (J)
GND
[V-IS136T4]
2/2
PJ400
B1
B2 D_MD3I
B3 D_MD4I
B4 D_MD5I
B5 D_MD6I
B6 D_MD7I
B7 D_CE1BI
B8 D_MA10I
B9 D_OEI
B10 D_MA11I
B11 D_MA9I
B12 D_MA8I
B13 D_MA13I
B14 D_MA14I
B15 D_WEI
B16 D_RDYIRQBI
B17
B18
B19 D_MIVALB
B20 D_MICLKB
B21 D_MA12I
B22 D_MA7I
B23 D_MA6I
B24 D_MA5I
B25 D_MA4I
B26 D_MA3I
B27 D_MA2I
B28 D_MA1I
B29 D_MA0I
B30 D_MD0I
B31 D_MD1I
B32 D_MD2I
B33
B34
B35
B36 D_CD1BI
B37 D_MDOB3
B38 D_MDOB4
B39 D_MDOB5
B40 D_MDOB6
B41 D_MDOB7
B42 D_CE2BI
B43
B44 D_IORDI
B45 D_IOWRI
B46 D_MISTRTB
B47 D_MDIB0
B48 D_MDIB1
B49 D_MDIB2
B50 D_MDIB3
B51
B52
B53 D_MDIB4
B54 D_MDIB5
B55 D_MDIB6
B56 D_MDIB7
B57 D_MOCLKB
B58 D_RSTBI
B59 D_WAITBI
B60
B61 D_REGI
B62 D_MOVALB
B63 D_MOSTRTB
B64 D_MDOB0
B65 D_MDOB1
B66 D_MDOB2
B67 D_CD2BI
B68
1T
3T
2T
4T
5V_CARD
R413
1
2
10K (J)
5V_CARD
R414
1
2
10K (J)
W401
2
1
NOT MOUNT
W402
2
1
NOT MOUNT
GND
GND
GND
GND

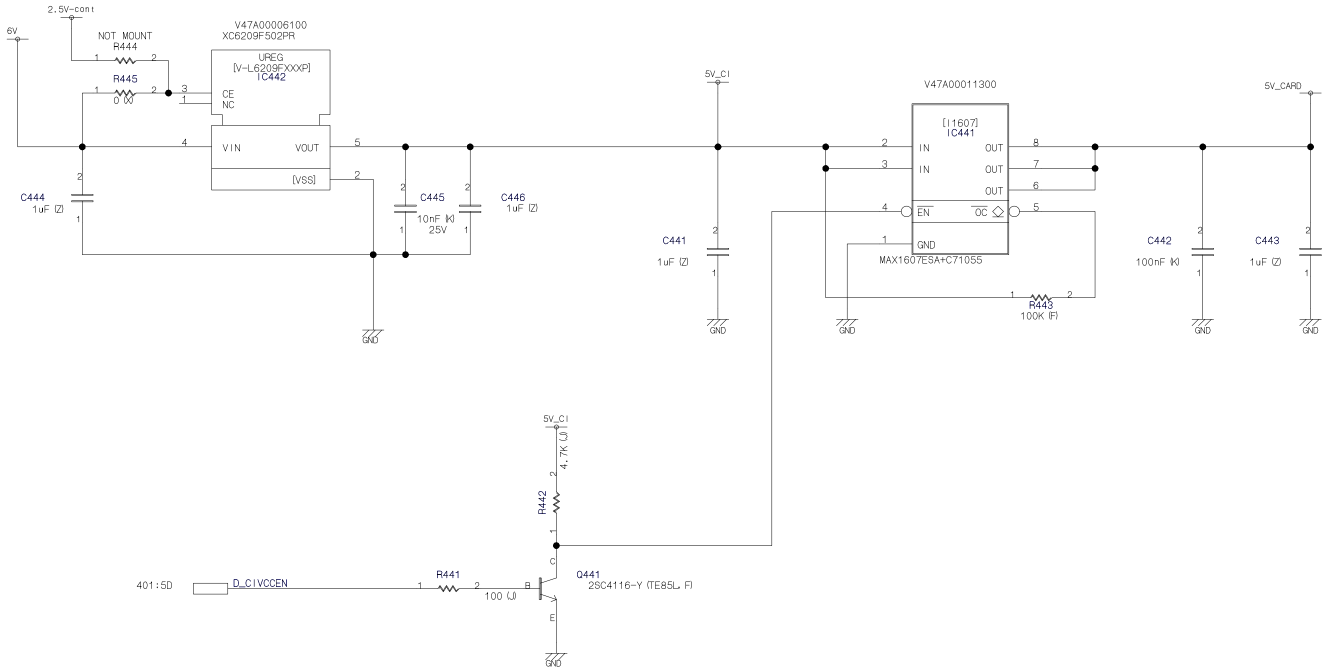
U05A EU_DIGITAL [403] SLOWBUS (PE0284)


V45A00001200
TC74VHCT373AFT (EL)
LCH
[LCX373]
IC421
OE#
LE
D0 D1 D2 D3 D4 D5 D6 D7
Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7
VCC
GND
V45A00001200
TC74VHCT373AFT (EL)
LCH
[LCX373]
IC422
SBADD0とSHARE
111:5D;117:6D;118:5C M_BE0
111:5D;116:7E;118:5C M_SBA1
111:5D;116:7E;118:5C M_SBA2
111:5D;116:7E;118:5C M_SBA3
111:5D;116:7E;118:5C M_SBA4
111:5E;116:7E;118:5C M_SBA5
111:5E;116:7E;118:5C M_SBA6
111:5E;116:7E;118:5C M_SBA7
111:5E;116:7D;118:1B;118:5C M_SBA8
111:5E;116:7D;118:1B;118:5C M_SBA9
111:5E;116:7D;118:1B;118:5C M_SBA10
111:5E;116:7D;118:1B;118:5C M_SBA11
111:5E;116:7D;118:1B;118:5C M_SBA12
111:5E;116:7D;118:1B;118:5D M_SBA13
111:5E;116:7D;118:1B;118:5D M_SBA14
401:8D D_ADLE
401:8D D_ADOE
D_MA 403:1B
D_MA0I D_MA1I D_MA2I D_MA3I D_MA4I D_MA5I D_MA6I D_MA7I
D_MA8I D_MA9I D_MA10I D_MA11I D_MA12I D_MA13I D_MA14I
5V_CI
C421
100nF (Z)
C422
100nF (Z)
GND

U05A EU_DIGITAL [404] PODVPP (PE0284)

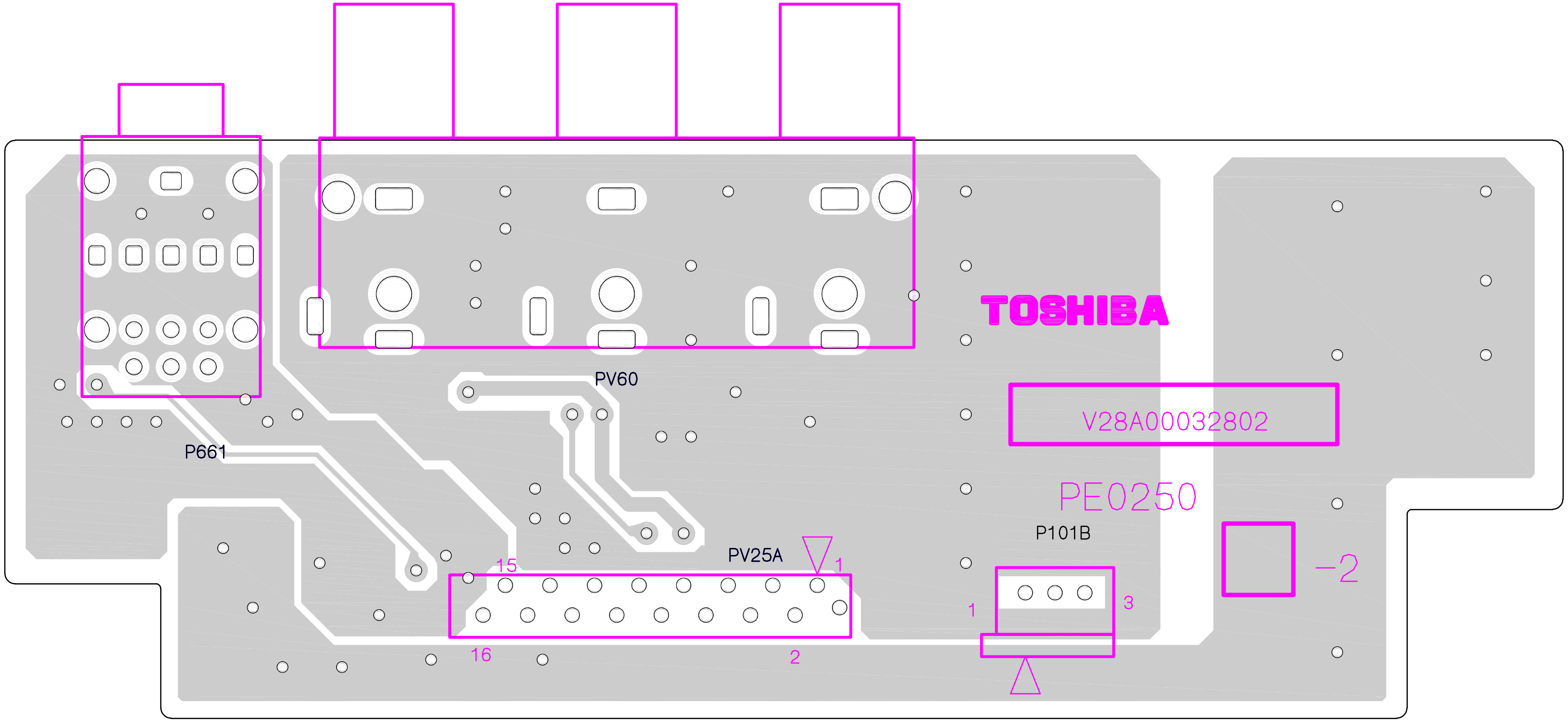

401:8D
D_DATOB
401:8D
D_DATOE
1
[7SH04]
IC433
3.3V
100nF (K)
C431
[Vcc]
[Vss]
[NC]
GND
V45GD0000353
TC7SH04FU (TE85L, F)
>1
[CL2G032]
IC434
1A
1B
2A
2B
VCC
GND
1Y
2Y
100nF (K)
C434
V45GD0000490
TC7W32FU (TE12L, F)
403:1B
D_MD
111:5C:117:6C:118:5B
M_SBD0
M_SBD1
M_SBD2
M_SBD3
M_SBD4
M_SBD5
M_SBD6
M_SBD7
V45GD0000413
TC74VHCT244AFT (EL)
[VHCT244]
IC431
EN1
EN2
D_MD0I
D_MD1I
D_MD2I
D_MD3I
D_MD4I
D_MD5I
D_MD6I
D_MD7I
5V_CI
C432
100nF (Z)
V45GD0000420
TC74VHC244FT (EL)
[VHC244]
IC432
3.3V
C433
100nF (Z)
[RMX4A]
RM431
[RMX4A]
RM432
22 (J)
22 (J)
A
B
C
D
E
F
1
2
3
4
5
6
7
8

U05A EU_DIGITAL [405] DVBCI I/F (PE0284)

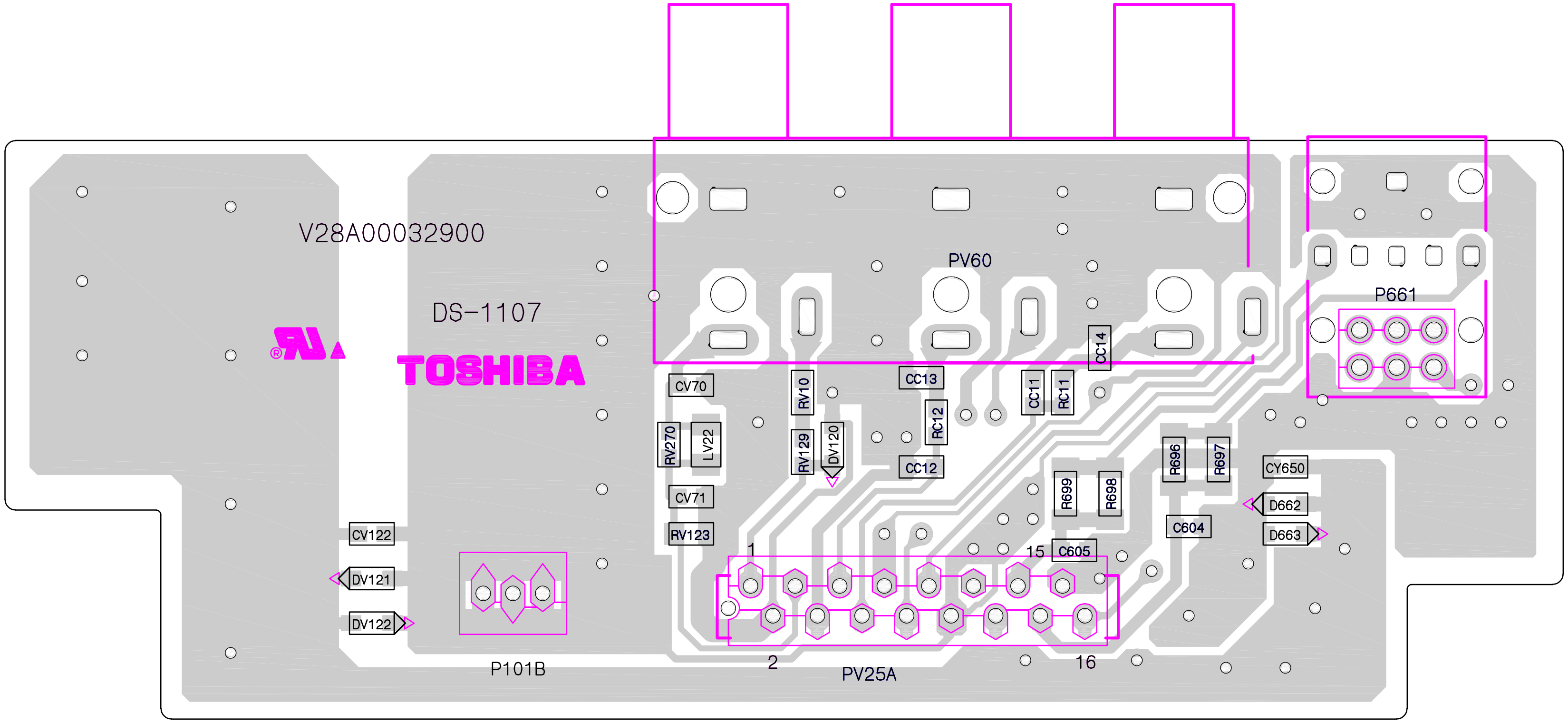

2.5V-cont
6V
NOT MOUNT
R444
R445
0 (X)
V47A00006100
XC6209F502PR
UREG
[V-L6209FXXXP]
IC442
CE
NC
VIN
VOUT
[VSS]
C444
1uF (Z)
C445
10nF (K)
25V
C446
1uF (Z)
GND
5V_CI
C441
1uF (Z)
V47A00011300
[I1607]
IC441
IN
IN
OUT
OUT
OUT
$\overline{EN}$
$\overline{OC}$
GND
MAX1607ESA+C71055
R443
100K (F)
5V_CARD
C442
100nF (K)
C443
1uF (Z)
5V_CI
4.7K (J)
R442
C
B
E
Q441
2SC4116-Y (TE85L, F)
401:5D
D_CIVCCEN
R441
100 (J)

U05A EU_DIGITAL [406] CARDVCC (PE0284)

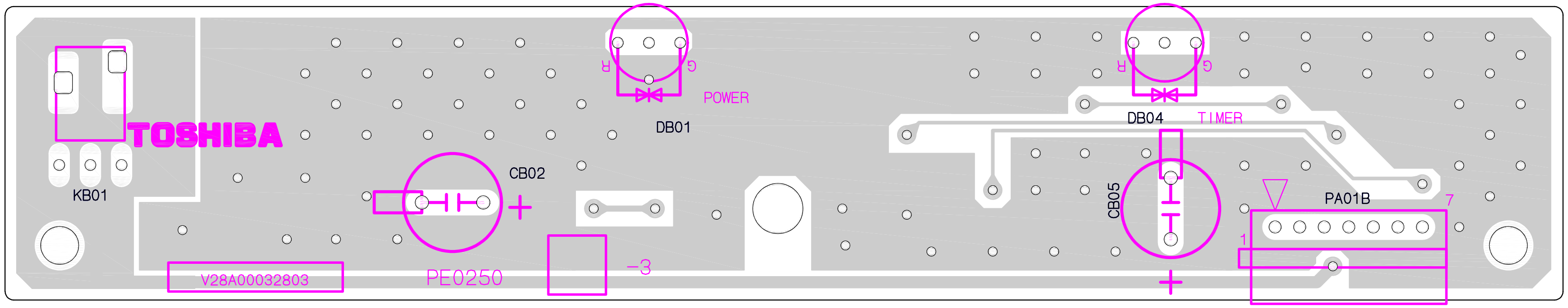
U03B FRONT_AV [Top] (PE0250)


P661
PV60
TOSHIBA
V28A00032802
PE0250
P101B
PV25A
15
1
16
2
1
3
-2

U03B FRONT_AV [Bottom] (PE0250)

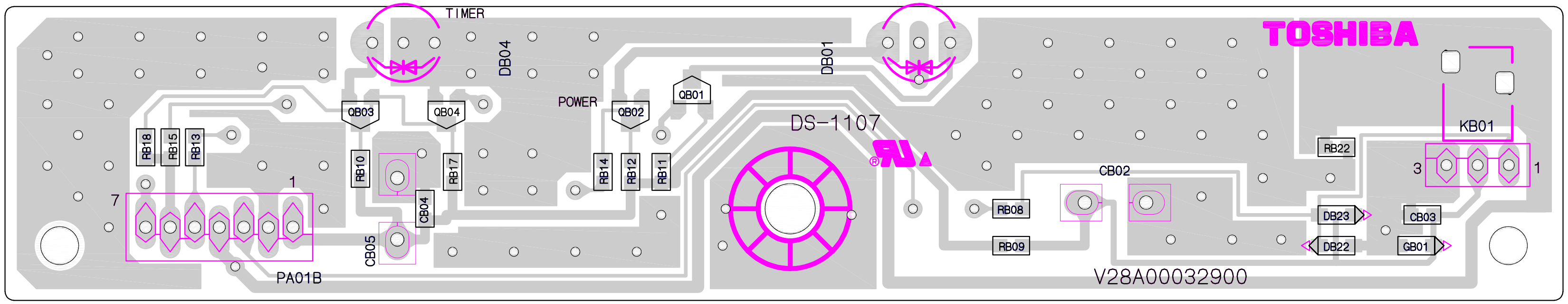

V28A00032900
DS-1107
TOSHIBA
PV60
P661
CV70
RV10
CC13
CC11
RC11
CC14
RC12
RV270
LV22
RV129
DV120
CC12
R696
R697
CY650
R699
R698
D662
CV71
C604
RV123
D663
CV122
1
15
C605
DV121
DV122
P101B
2
16
PV25A

U03C LED [Top] (PE0250)

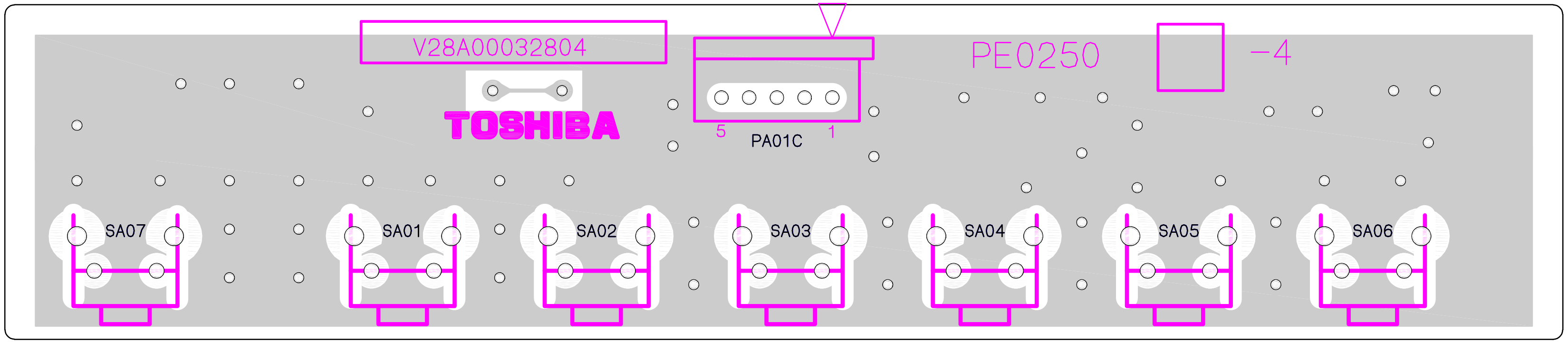


TOSHIBA
KB01
R
G
POWER
DB01
R
G
DB04
TIMER
CB02
CB05
PA01B
7
1
V28A00032803
PE0250
-3
+
+

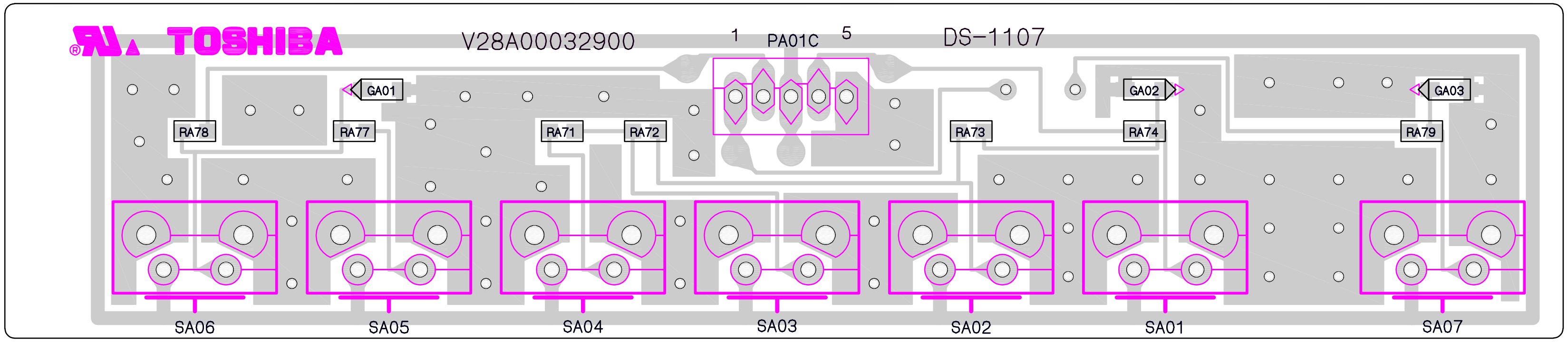
U03C LED [Bottom] (PE0250)


TIMER
DB04
DB01
TOSHIBA
QB03
QB04
POWER
QB02
QB01
DS-1107
KB01
RB18
RB15
RB13
RB10
RB17
RB14
RB12
RB11
RB22
3
1
CB02
7
1
CB04
CB05
RB08
RB09
DB23
CB03
DB22
GB01
PA01B
V28A00032900

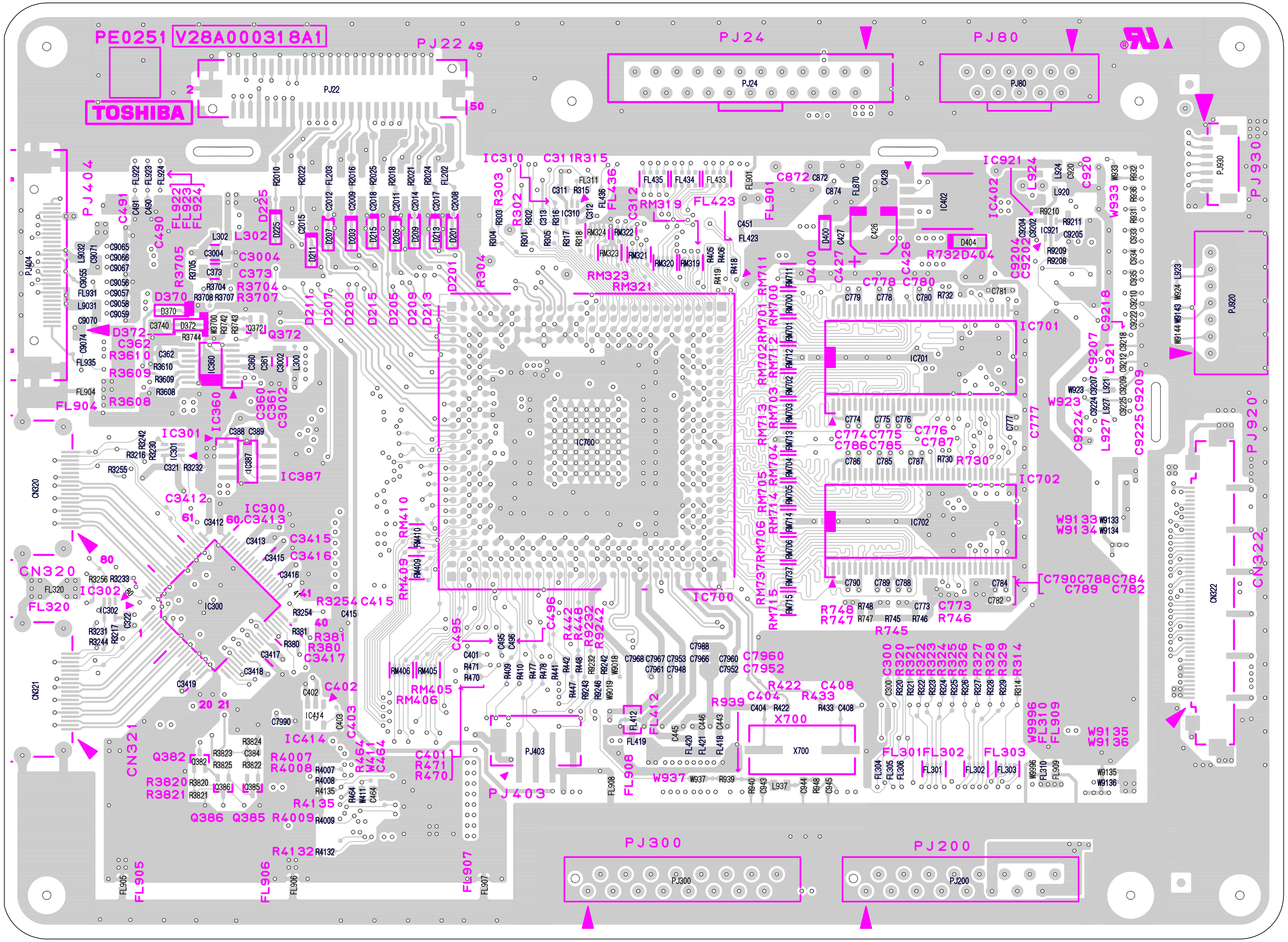
U03D KEY [Top] (PE0250)


V28A00032804
TOSHIBA
5
PA01C
1
PE0250
-4
SA07
SA01
SA02
SA03
SA04
SA05
SA06

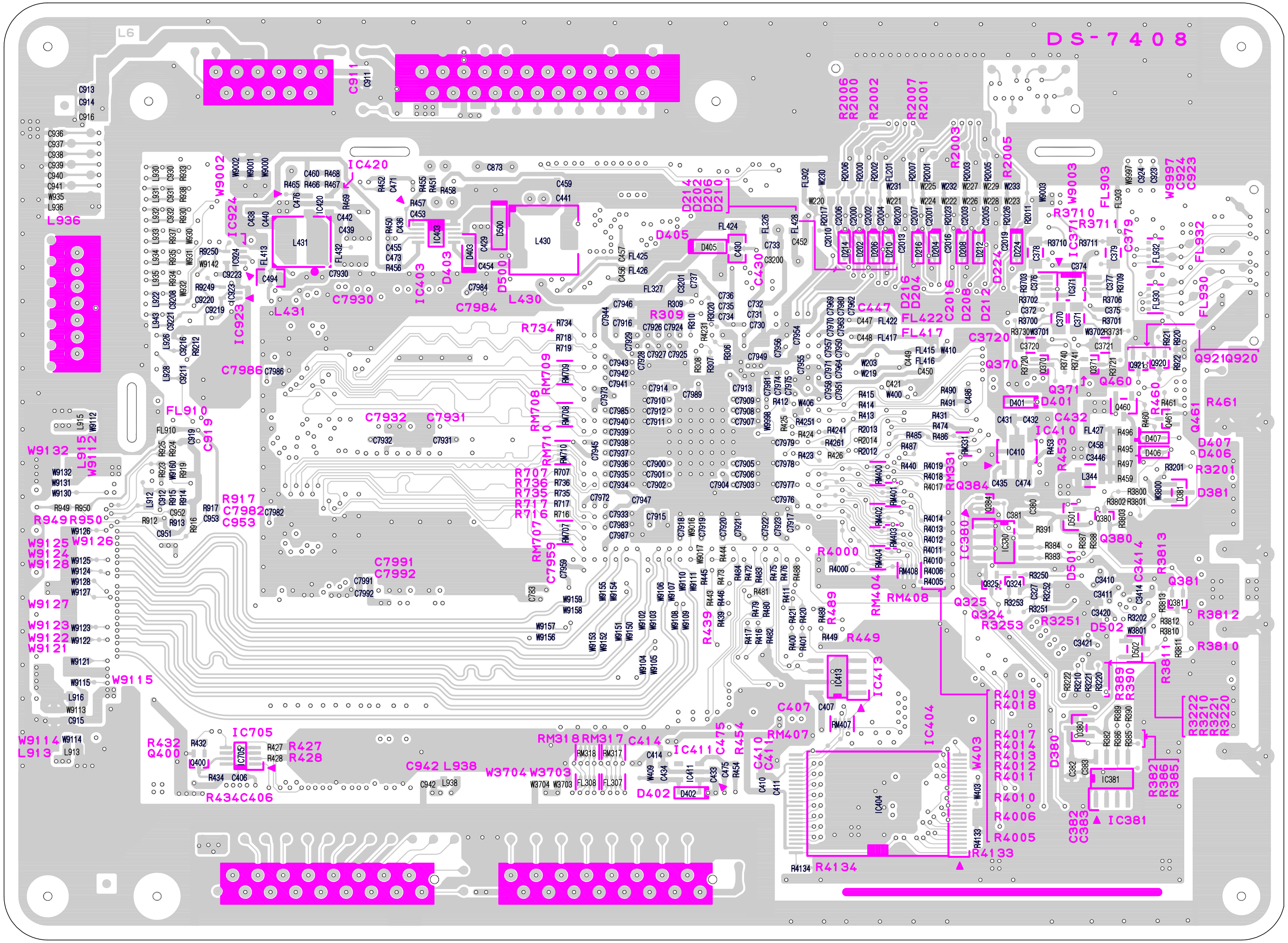
U03D KEY [Bottom] (PE0250)


TOSHIBA
V28A00032900
1
PA01C
5
DS-1107
GA01
GA02
GA03
RA78
RA77
RA71
RA72
RA73
RA74
RA79
SA06
SA05
SA04
SA03
SA02
SA01
SA07

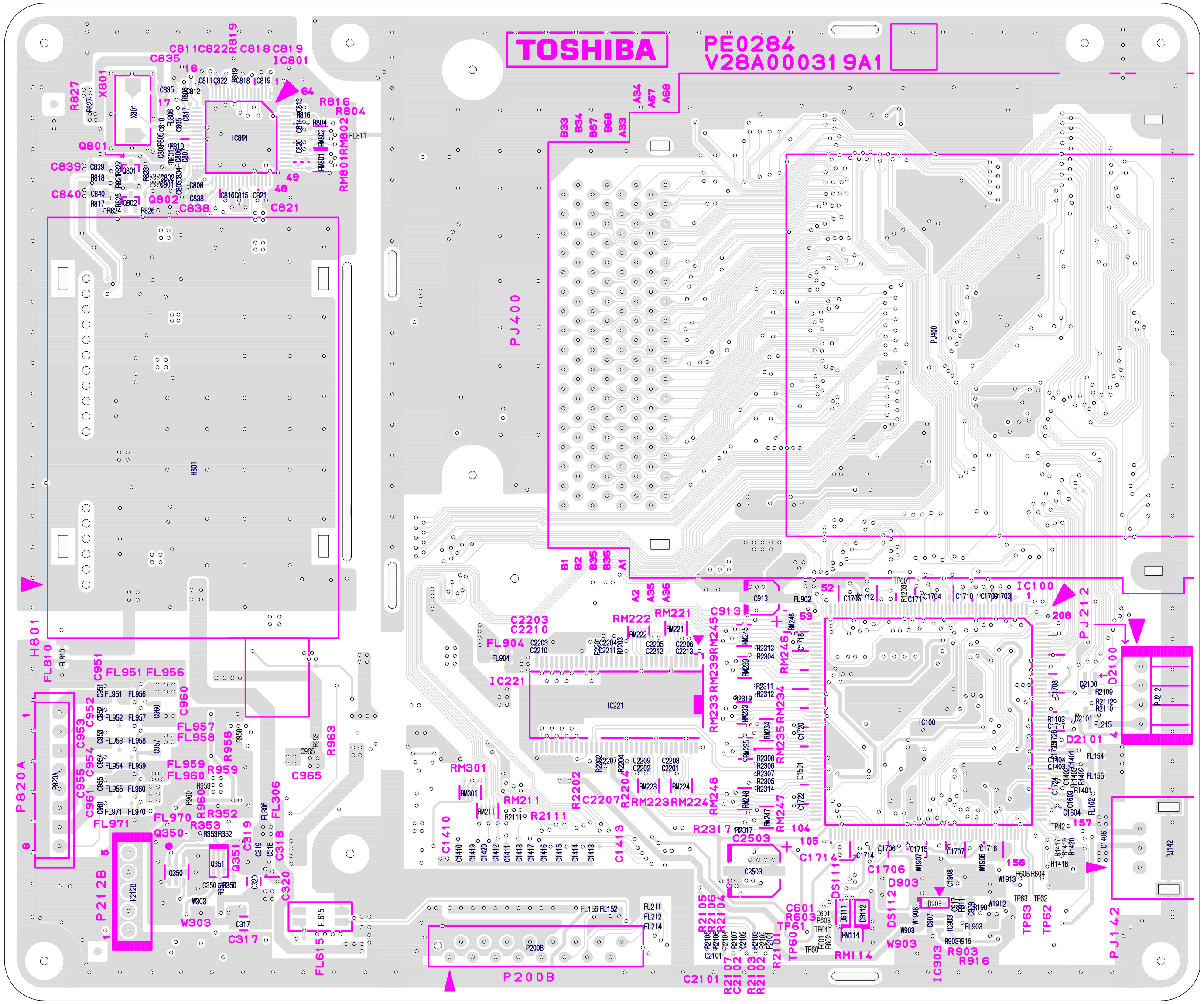
U04AS SIGNAL [Top] (PE0251)


PE0251
V28A00031 8A1
TOSHIBA
PJ22
49
50
2
PJ24
PJ80
PJ930
PJ920
PJ404
CN320
CN321
CN322
PJ403
PJ300
PJ200
IC310
C311
R315
FL436
IC921
L924
C920
W933
IC402
C872
FL901
RM319
FL423
C312
R303
R302
R304
RM323
RM321
D400
C427
C426
R732
D404
C9204
C9203
C778
C780
IC701
IC702
IC700
C9218
C9207
L921
C9209
C9225
W923
C9224
L927
C777
C774
C775
C776
C786
C785
C787
R730
W9133
W9134
C790
C788
C784
C789
C782
R748
R747
R745
C773
R746
RM711
RM701
RM700
RM702
RM712
RM703
RM713
RM704
RM714
RM705
RM706
RM737
RM715
C491
C490
FL922
FL923
FL924
L302
D225
C3004
C373
R3705
R3704
R3707
D370
D372
C362
R3610
R3609
R3608
FL904
Q372
IC360
C360
C361
C3002
D211
D207
D203
D215
D205
D209
D213
D201
IC301
IC387
C3412
IC300
C3413
C3415
C3416
IC302
FL320
80
61
60
41
40
20
21
R3254
C415
R381
R380
C3417
RM410
RM409
C402
C403
IC414
Q382
R3820
R3821
Q386
Q385
R4007
R4008
R4135
R4009
R4132
R464
W411
C464
C401
R471
R470
C495
C496
R442
R448
R9232
R9242
RM405
RM406
C7960
C7952
R422
C408
R939
C404
R433
X700
FL412
FL908
W937
C300
R3220
R3221
R3222
R3223
R3224
R3225
R3226
R3227
R3228
R3229
R314
W9996
FL310
FL909
W9135
W9136
FL301
FL302
FL303
FL905
FL906
FL907

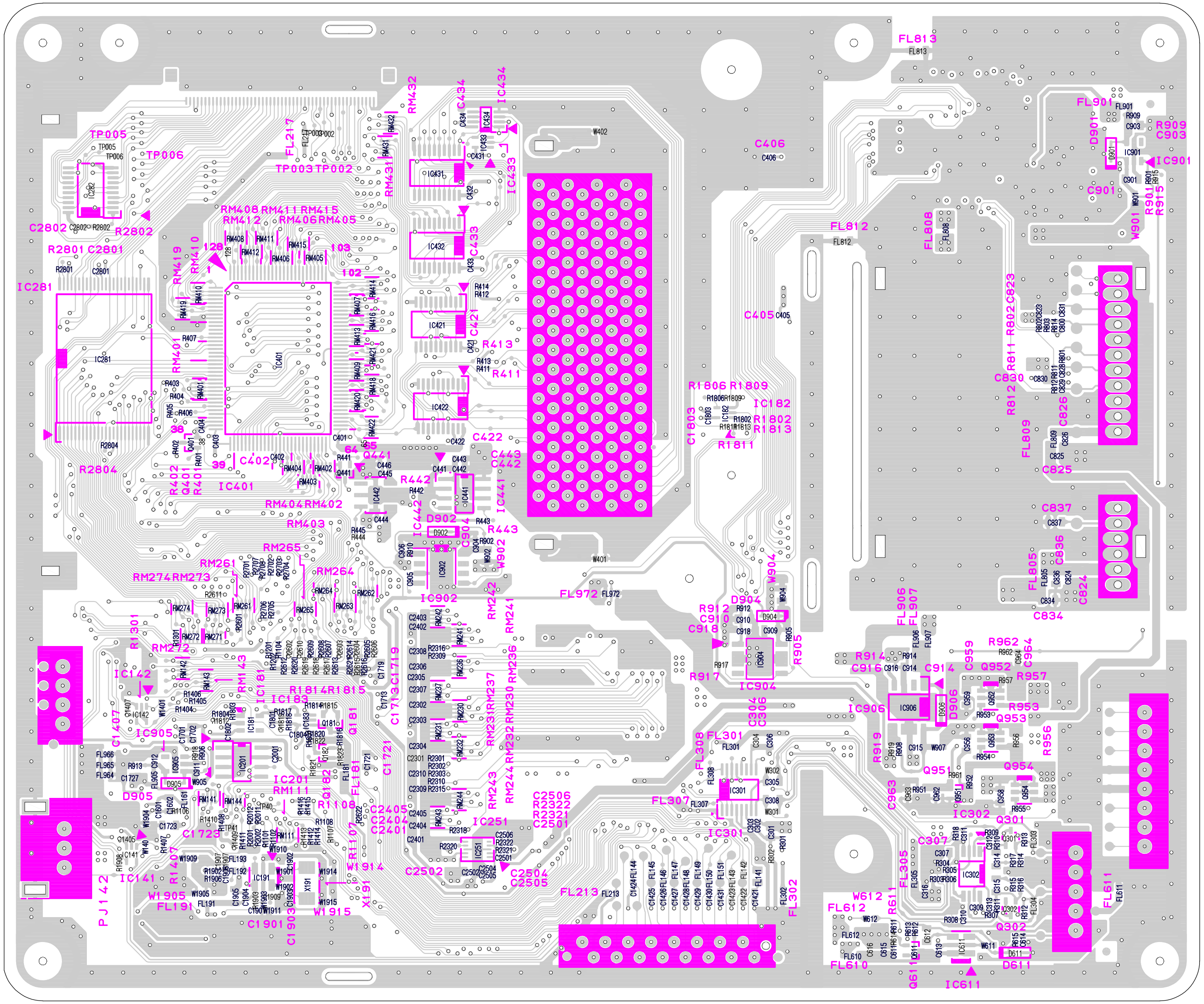
U04AS SIGNAL [Bottom] (PE0251)


DS-7408
L6
C911
L936
R2006
R2000
R2002
R2007
R2001
R2003
R2005
W9002
IC924
IC420
IC923
L431
C7930
IC403
D403
C7984
D500
L430
D214
D206
D210
D405
C430
D216
D204
C2016
D208
D212
D224
FL422
C447
FL417
R309
R734
RM709
RM708
RM710
C7986
FL910
C919
W9132
L915
W9112
C7932
C7931
R707
R736
R735
R717
R716
R917
C7982
C953
R949
R950
W9125
W9126
W9124
W9128
RM707
C7959
C7991
C7992
W9127
W9123
W9122
W9121
W9115
W9114
L913
R432
Q400
IC705
R427
R428
R434
C406
C942
L938
W3704
W3703
RM318
RM317
C414
IC411
C475
R454
D402
C410
C411
RM407
C407
IC413
R449
R489
R439
RM404
RM408
R4000
IC404
W403
R4134
R4133
R4019
R4018
R4017
R4014
R4013
R4012
R4011
R4010
R4006
R4005
IC380
Q384
RM331
W9003
FL903
W9997
C924
C923
R3710
R3711
IC371
C379
FL932
FL930
C3720
Q370
Q371
Q460
Q921
Q920
D401
C432
IC410
R453
R460
Q461
R461
D407
D406
R3201
D381
Q380
D501
C3414
R3813
Q381
R3812
Q325
Q324
R3253
R3251
D502
R3810
R3811
R3389
R3390
R3222
R3210
R3221
R3220
D380
R3382
R3386
R3385
C382
C383
IC381

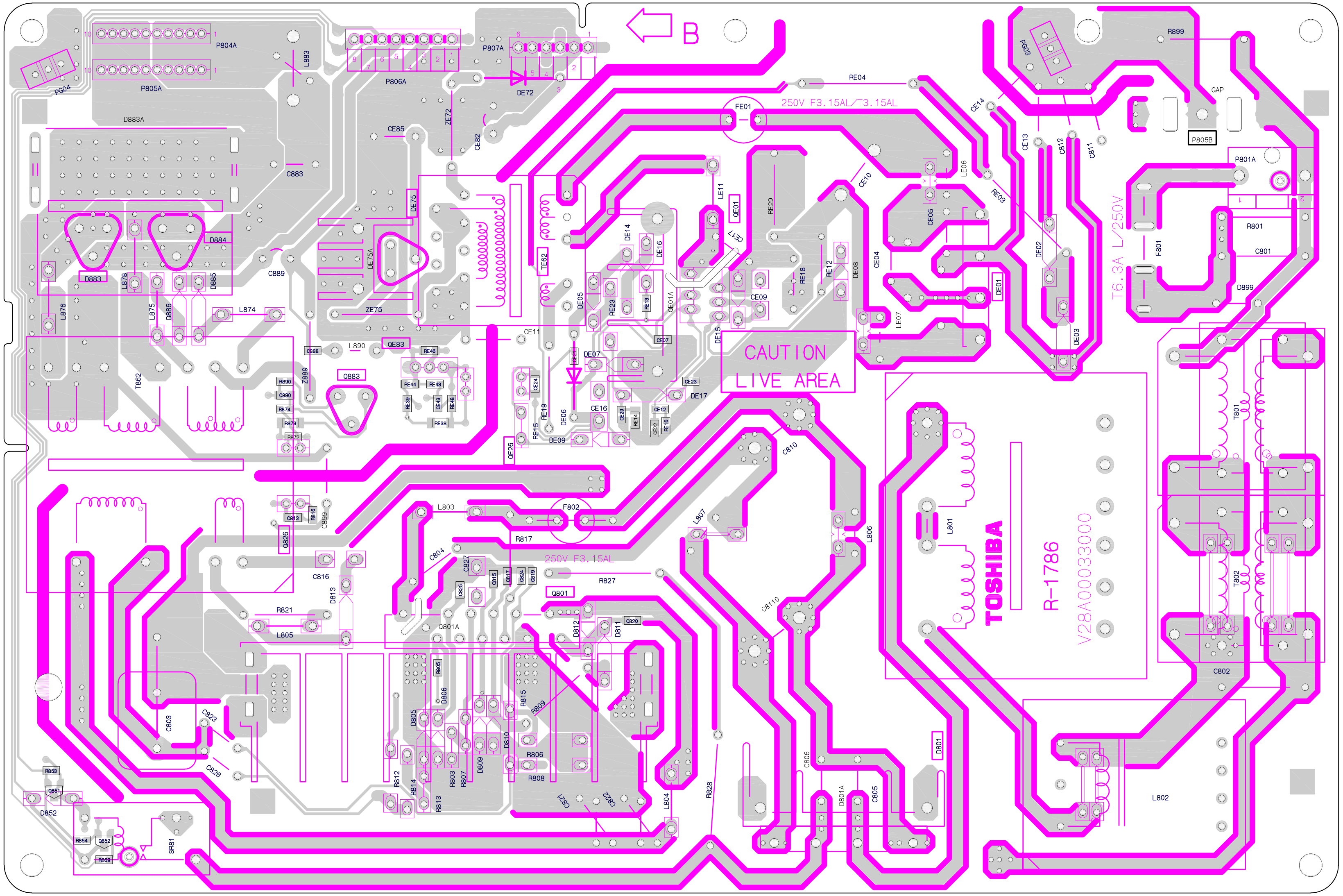
U05A EU_DIGITAL [Top] (PE0284)


TOSHIBA
PE0284
V28A00031 9A1
IC801
X801
Q801
Q802
C839
C840
R827
R816
R804
RM801
RM802
H801
FL810
P820A
P212B
Q350
Q351
W303
C317
FL615
P200B
PJ400
PJ212
PJ142
IC221
IC100
IC1706
FL904
RM301
RM211
R2111
C1410
C1413
C2503
C2207
C2203
C2210
RM222
RM221
C913
D2100
D2101
D903
W903
R903
R916
RM114
TP60
TP61
TP62
TP63
C601
R603
C2101
FL951
FL956
FL957
FL958
FL959
FL960
FL970
FL971
R958
R959
R960
R963
C965
R352
R353
C318
C319
C320
FL306

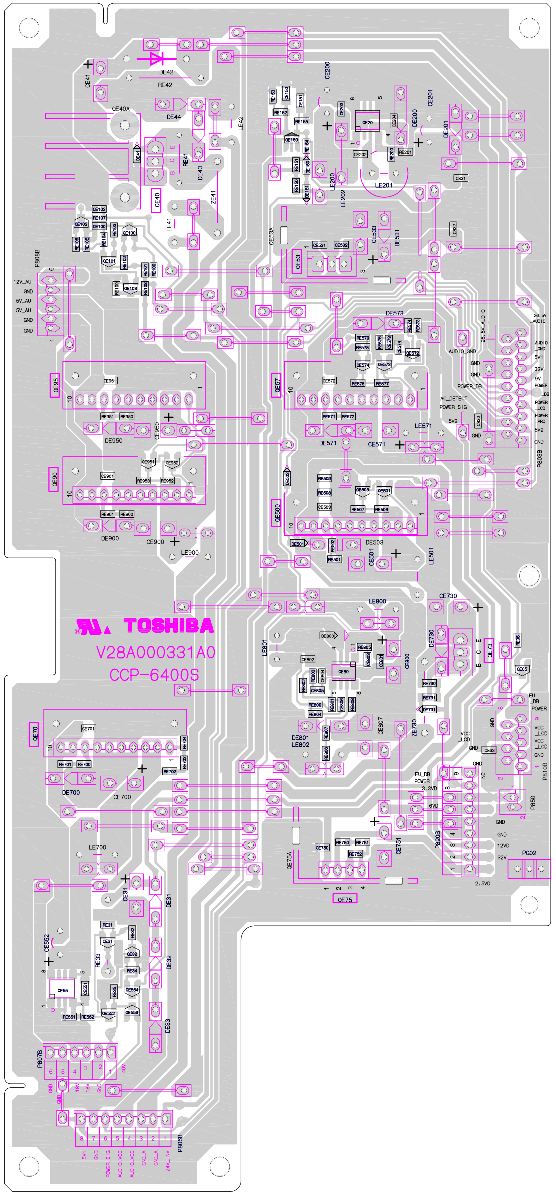
U05A EU_DIGITAL [Bottom] (PE0284)


FL813
FL901
D901
R909
C903
IC901
C901
R901
R915
W901
C406
TP005
TP006
FL217
TP003
TP002
RM432
C434
IC434
IC433
RM431
C2802
R2802
R2801
C2801
IC281
RM408
RM411
RM415
RM412
RM406
RM405
128
103
102
RM419
RM410
RM401
C433
C421
R413
R411
FL812
FL808
C823
R802
R811
C830
R812
C826
FL809
C825
C405
R1806
R1809
IC182
C1803
R1802
R1813
R1811
C422
C443
C442
IC441
R442
64
65
Q441
38
39
C402
IC401
R2804
R402
R401
R403
RM404
RM402
RM403
IC442
D902
C904
R443
W902
RM265
RM261
RM274
RM273
RM264
IC902
RM242
RM241
FL972
W904
D904
R912
C910
C918
R905
IC904
R917
C837
FL805
C836
C824
C834
FL906
FL907
R962
C959
C964
R914
C916
C914
Q952
R957
IC906
D906
R953
Q953
R956
R919
C953
Q951
Q954
IC302
Q301
C307
FL305
FL611
R1301
RM272
IC142
RM143
IC181
R1814
R1815
IC183
C1407
IC905
Q181
C1713
C1719
C1721
RM237
RM230
RM231
RM232
RM236
RM243
RM244
C304
C306
FL301
FL308
FL307
IC301
D905
IC201
RM111
Q182
R1108
FL181
C2405
C2404
C2401
IC251
C2506
R2322
R2321
C2501
C1723
R1407
IC141
PJ142
W1905
FL191
C1901
C1903
W1915
X191
R1107
C2502
C2504
C2505
FL213
FL302
W612
FL612
R611
FL610
Q611
IC611
D611
Q302

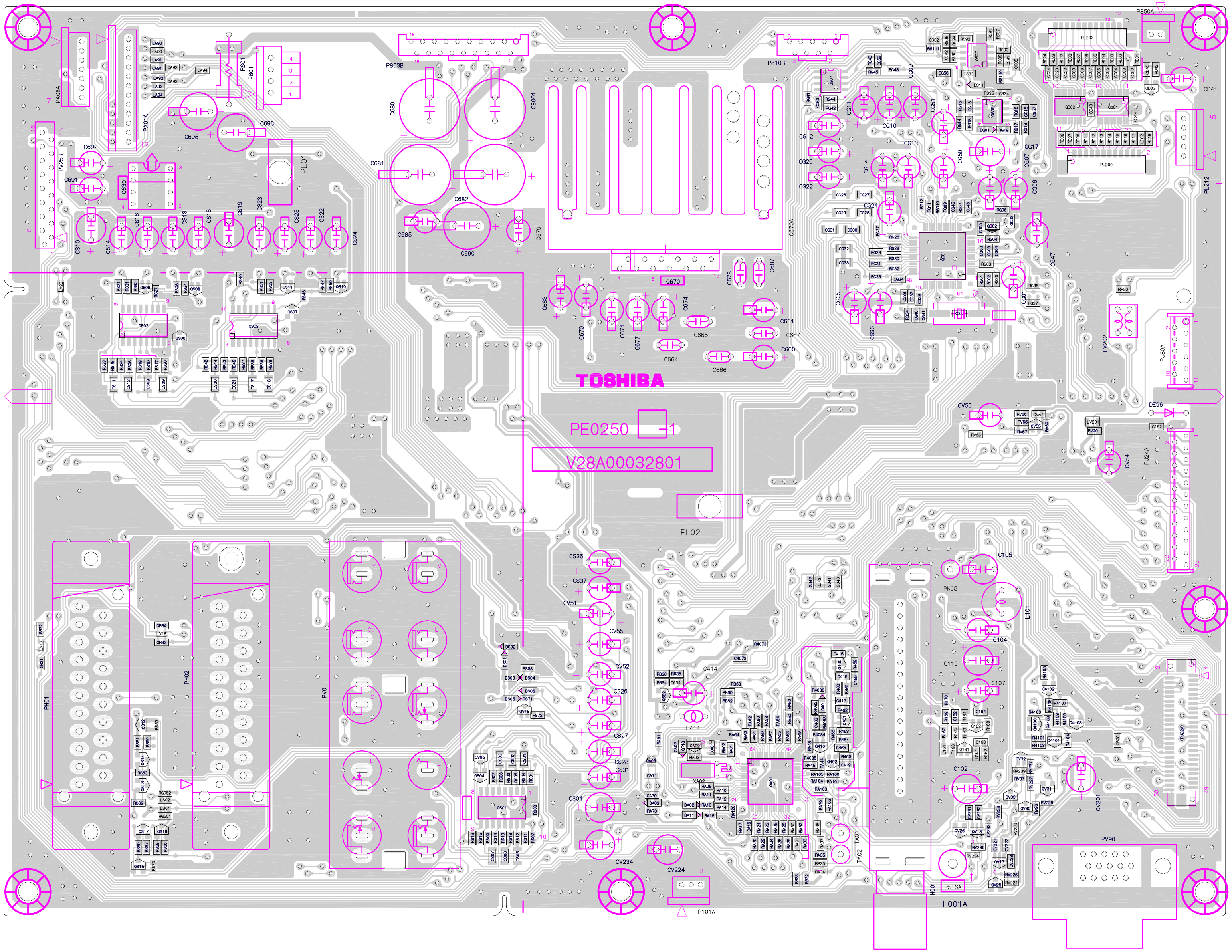
U01A POWER [Bottom] (PE0252)


B
P804A
P805A
P806A
P807A
PG04
PG03
D883A
D883
D884
D885
D886
C883
C889
C888
L883
L874
L875
L876
L878
L890
T862
Z889
CE83
CE85
CE82
ZE72
DE72
DE75
DE75A
ZE75
Q883
FE01
250V F3.15AL/T3.15AL
RE04
CE14
CE13
CE12
C812
C811
R899
GAP
P805B
P801A
R801
C801
F801
D899
T6.3A L/250V
LE06
LE11
QE01
RE29
CE10
RE03
CE05
CE04
DE08
RE12
RE18
CE09
DE01A
DE14
DE16
DE05
RE23
RE13
TE62
CE11
DE07
DE06
DE09
DE15
RE19
RE15
CE16
CE26
CE23
DE17
DE02
DE03
DE01
LE07
CAUTION
LIVE AREA
T801
T802
C802
L802
D801
TOSHIBA
R-1786
V28A00033000
L801
L803
F802
R817
250V F3.15AL
C804
C827
R827
Q801
Q801A
D812
D811
C820
C816
D813
R821
L805
C803
C823
C826
C810
C8110
L806
L807
C806
C805
D801A
L804
R828
R812
R814
R813
R803
R807
D809
D810
R806
R808
R815
R809
D805
D806
C821
C822
C826
C813
R816
C899
R853
Q851
D852
R854
Q852
R869
SR81

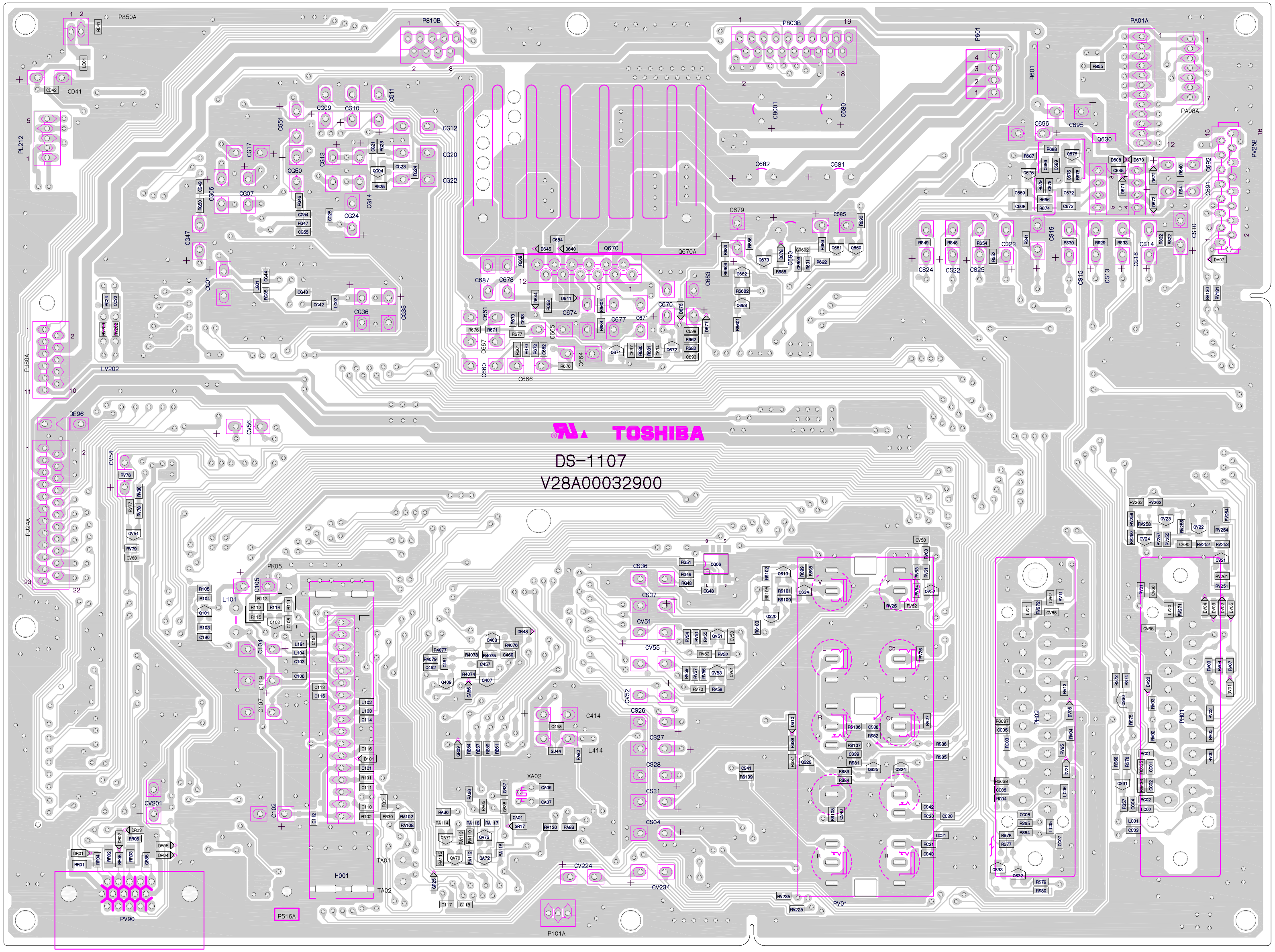
U02A LOW_B [Bottom] (PE0253)


TOSHIBA
V28A000331A0
CCP-6400S
DE42
RE42
CE41
DE44
DE40
LE42
CE200
CE201
DE200
LE201
LE200
DE573
DE950
CE950
DE571
CE571
LE571
DE900
CE900
LE900
DE503
LE501
LE800
CE730
DE730
DE801
LE802
LE801
DE700
CE700
LE700
CE751
CE750
DE51
DE52
DE53
CE31
CE552
P808B
P809B
P810B
P807B
P806B
P850
PG02
12V_AU
GND
5V_AU
AUDIO_GND
POWER_DB
AC_DETECT
POWER_SIG
5V2
GND
EU_DB
POWER
VCC_LCD
12VD
32V
2.5VD

U03A AV_TERMINAL [Top] (PE0250)


TOSHIBA
PE0250
1
V28A00032801
PL02
PL01
P803B
P810B
P850A
PL203
PL200
PL212
PJ80A
PJ24A
PA08A
PA01A
PV29B
PH01
PH02
PV01
PV90
P101A
H001A
P516A
PK05
L101
L414
C680
C681
C682
C685
C690
C695
C696
C692
C691
C679
C683
C670
C671
C677
C674
C665
C664
C666
C661
C667
C660
C678
C687
CD41
CV56
CV54
CV201
CS36
CS37
CV51
CV55
CV52
CS26
CS27
CS28
CS31
CS04
CV234
CV224
C105
C104
C119
C107
C102
C414
DE96
LV202

U03A AV_TERMINAL [Bottom] (PE0250)

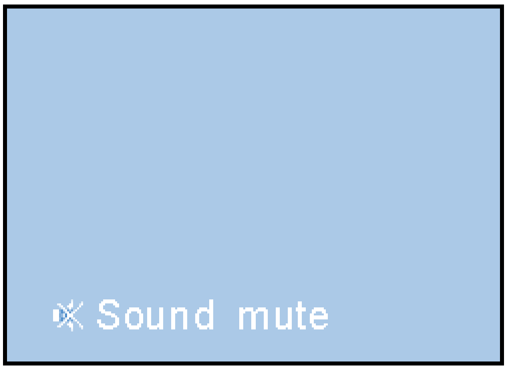


P850A
P810B
P803B
P601
PA01A
PA08A
PV25B
PL212
PJ80A
LV202
DE96
PJ24A
CV56
CV54
PK05
L101
CV201
PV90
P516A
TA01
TA02
H001
XA02
C414
L414
P101A
CV224
CV234
PV01
PH02
PH01
C6001
C680
C682
C681
C679
C685
Q670A
Q670
C684
C687
C678
C674
C677
C671
C670
C666
CG09
CG10
CG11
CG12
CG20
CG22
CG13
CG50
CG51
CG17
CG07
CG14
CG24
CG35
CG36
CG01
CG47
C696
C695
Q630
CS24
CS22
CS25
CS23
CS19
CS15
CS13
CS14
CS16
CS10
CS36
CS37
CV51
CV55
CV52
CS26
CS27
CS28
CS31
CS04
TOSHIBA
DS-1107
V28A00032900

ADJUSTMENT

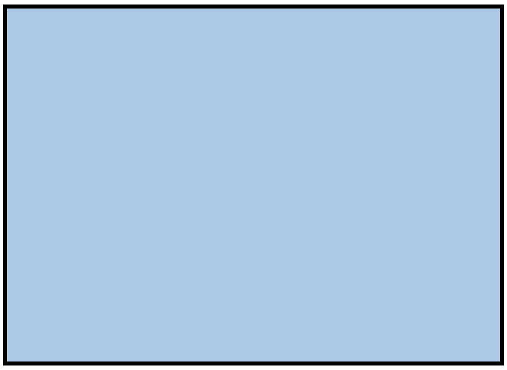
Service Mode

Entering to Service Mode



1. Set VOLUME to minimum and press 🔇 button once on remote control.

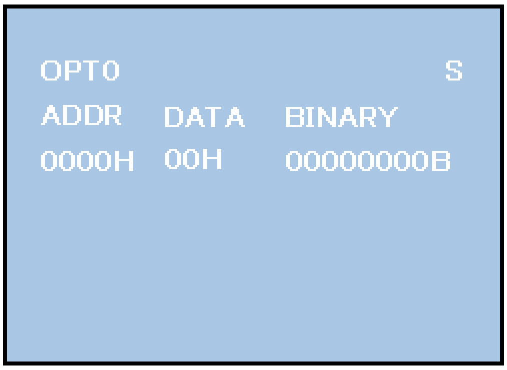
↓



2. Press 🔇 button again and hold button down.

↓

Service Mode display



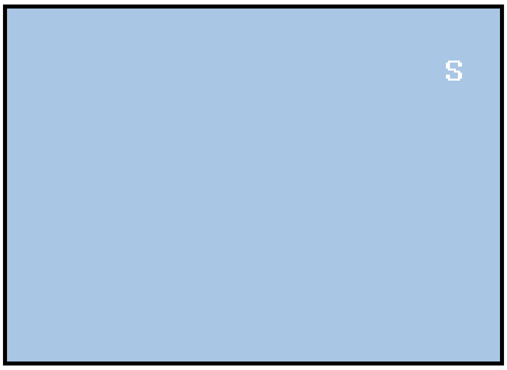
```
OPTO                    S
ADDR   DATA   BINARY
0000H  00H    00000000B
```

3. While holding the 🔇 button, press MENU button on TV set.

Displaying the Adjustment Menu

Press MENU button on TV.

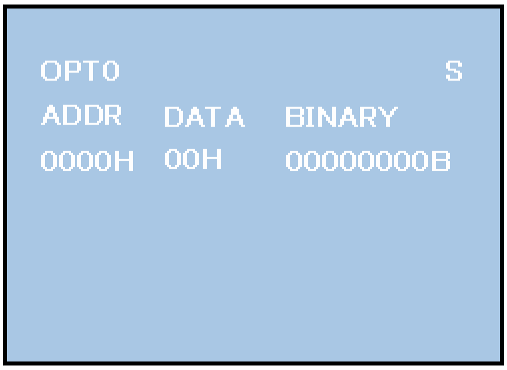
Service Mode



```
                              S
```

Press ↑ ↓ Press

Adjustment Mode



```
OPTO                          S
ADDR     DATA     BINARY
0000H    00H      00000000B
```

Key Function in the Service Mode

The following key entry during display of adjustment menu provides special functions.

CAUTION: Never try to perform initialization unless you have changed the memory IC.

	⊕ button (on remote control)

Test signal selection	
Selection of the adjustment items	CH ▲/▼ (on TV or remote control)
Change of the data value	Volume ⊿ +/- (on TV or remote control)
Adjustment menu mode ON/OFF	MENU button (on TV)
Initialization of the memory (QA02)	CALL + CH ▲ button on TV
Reset the count of operating protect circuit to "00"	CALL + CH ▼ button on TV
Turn off I2C bus communication	CALL + Volume ⊿ + button on TV
"RCUT" selection	1 button
"GCUT" selection	2 button
"BCUT" selection	3 button
"CNTX" selection	4 button
"COLC" selection	5 button
"UVTT" selection	6 button
Automatic A/D Adjustment (PC, Component, Composite (PAL, NTSC))	7 button
Self diagnostic display ON/OFF	9 button

Selecting the Adjusting Item

Every pressing of CH ▲ button in the service mode changes the adjustment items in the order of table below. (▼ button for reverse order)

SETTING & ADJUSTING DATA

[SERVICE MODE]

ADJUSTING ITEMS AND DATA IN THE SERVICE MODE:

Note:

The image system data of RCUT-BDRV is different by each image format.
The PAL value is indicated in the table.
Never adjust H.POS and V.POS except PAL/WIDE mode.

Item	**Name of adjustment**
RCUT	R CUT OFF
GCUT	G CUT OFF
BCUT	B CUT OFF
RDRV	R DRIVE
GDRV	G DRIVE
BDRV	B DRIVE
BRTC	BRIGHTNESS CENTER
COLC	COLOR CENTER
UVTT	BASE BAND TINT
CNTX	CONTRAST MAX
VOLUX	MAX VOLUME LIMITED
PLLW0	PLL WAIT TIME
PLLW1	PLL WAIT TIME
PLLW2	PLL WAIT TIME
PLLW3	PLL WAIT TIME
PLLW4	PLL WAIT TIME
PLLW5	PLL WAIT TIME
OPT1	TV SET OPTION 1
OPT2	TV SET OPTION 2
OPT3	TV SET OPTION 3
OPT4	TV SET OPTION 4 (PANEL OPT DATA FOR VENDOR)
OPT5	TV SET OPTION 5 (PANEL OPT DATA FOR SIZE)
OPT6	TV SET OPTION 6 (HOTEL MODE)
OPT7	TV SET OPTION 7 (HOTEL MODE)
OPT8	TV SET OPTION 8 (HOTEL MODE)
TVOP	TV SET OPTION
ID	MODEL ID
BDWID	BORDER WIDTH FOR EXACT SCAN
BDHIT	BORDER HEIGHT FOR EXACT SCAN
FPLG	MASK_ENABLE (SD/HD)
FPLG2	Channel LOGO Vector Clip SW (SD)

FPLG3	Channel LOGO Vector Clip SW (HD)

Factory preset data will be loaded after setting Model ID data.
(Refer to Initialization of Memory Data of QA02 and setting data of signal board.)

Adjusting the Data

Pressing of VOLUME ◿ +/- button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

I2C Bus Off

Turn off I2C communication between IC700 and IC400.

1) Press and hold the CALL button on the remote control, then press the Volume ◿ + button on the TV.

2) Display "BUS Off" OSD.

3) I2C communication turned off.

Note:

To return Bus on status, press and hold the CALL button on the remote control, then press the Volume ◿ + button on the TV again. TV will be turned off and automatically turned on, then status will be Bus On.

Setting TVOP

Enter to service mode and select menu of TVOP by pressing P▲ or P▼ during display of adjustment menu. After selecting TVOP, press ◿ + or ◿ - to set I2C check function to disable or enable as below.

TVOP	FUNCTION DESCRIPTION	1	0 (Normal)
D5 (bit5)	I2C check between IC700 and IC400. (WDT)	Disable	Enable

Setting Panel Option Data

Panel option data is subject to OP4 and OP5.
Enter to service mode and select menu of OPT4 or OPT5 by pressing P▲ or P▼ during display of adjustment menu. After selecting OPT4 or OPT5, press ◿ + or ◿ - to set OPT4 or OPT5 value as table below.

Panel option data

Series		Model name	Panel vendor	OPT4 value	OPT5 value
C3000	EU Digital/Ready	32C3030D/3031D/ 3000P/3001P/3002P	LPL	0x01	0x05
			IPS	0x07	0x05
		37C3030D/3031D	LPL	0x01	0x06
			IPS	0x07	0x06
		37C3000P/3001P/3002P	LPL	0x01	0x06
			AUO AMVA	0x05	0x06
		42C3030D/3031D/ 3000P/3001P/3002P	LPL	0x01	0x07
			AUO	0x05	0x07

OP4

Ex. OPT4 value 0x05 indicates that panel vendor is AUO AMVA.

		OPT4							
		D7 (bit7)	D6 (bit6)	D5 (bit5)	D4 (bit4)	D3 (bit3)	D2 (bit2)	D1 (bit1)	D0 (bit0)
Panel vendor	LPL	-	-	-	-	0	0	0	1
	SHP	-	-	-	-	0	0	1	0
	CMO	-	-	-	-	0	0	1	1
	AUO PMVA	-	-	-	-	0	1	0	0
	AUO AMVA	-	-	-	-	0	1	0	1
	SAMSUNG	-	-	-	-	0	1	1	0
	IPS	-	-	-	-	0	1	1	1

OP5

Ex. OPT5 value 0x05 indicates that panel size is 32.

		OPT5							
		D7 (bit7)	**D6 (bit6)**	**D5 (bit5)**	**D4 (bit4)**	**D3 (bit3)**	**D2 (bit2)**	**D1 (bit1)**	**D0 (bit0)**
Size	32	-	-	-	-	0	1	0	1
	37	-	-	-	-	0	1	1	0
	42	-	-	-	-	0	1	1	1

Convert from Bit (Binary) to Hex

The table for converting from bit (D7-D0) to hex (0x**).

		BIT (Binary)			
High nibble		**D7**	**D6**	**D5**	**D4**
Low nibble		**D3**	**D2**	**D1**	**D0**
HEX	**0**	0	0	0	0
	1	0	0	0	**1**
	2	0	0	**1**	0
	3	0	0	**1**	**1**
	4	0	**1**	0	0
	5	0	**1**	0	**1**
	6	0	**1**	**1**	0
	7	0	**1**	**1**	**1**
	8	**1**	0	0	0
	9	**1**	0	0	**1**
	A	**1**	0	**1**	0
	B	**1**	0	**1**	**1**
	C	**1**	**1**	0	0
	D	**1**	**1**	0	**1**
	E	**1**	**1**	**1**	0

	F	**1**	**1**	**1**	**1**

E.g. If Bit D7-0 = 0**1**0**1** **1**0**1**0, Hex data is 0x**5A**.

Exit from Service Mode

Pressing POWER button to turn off the TV once.

Initialization of Memory Data of QA02 and Setting Data of Signal Unit

After replacing QA02 or signal board, the following initialization is required.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.
Whenever using new signal board to the set, setting the Model ID data according to Panel option data.

1) Enter the service mode.

2) Select menu of ID by pressing P▲ or P▼ during display of adjustment menu in the service mode.

3) Change ID data into MODEL ID to initialize by pressing ⊿ + or ⊿ -., refer to table below.

4) Press and hold the CALL button on the remote control, then press the CHANNEL ▲ button on the TV.

5) Initialization progress dialog including model name and panel vendor is shown. Progress status is "WRITING".

6) Progress status is changed "OK" and power cycle (automatically). Then QA02 initialization has been completed.

7) Enter the service mode and select version check mode. Confirm if model name and model id set is correct. If not, repeat steps 1) to 6).

Note:

In case initialization by setting wrong MODEL ID is done, there is a possibility of abnormal display.

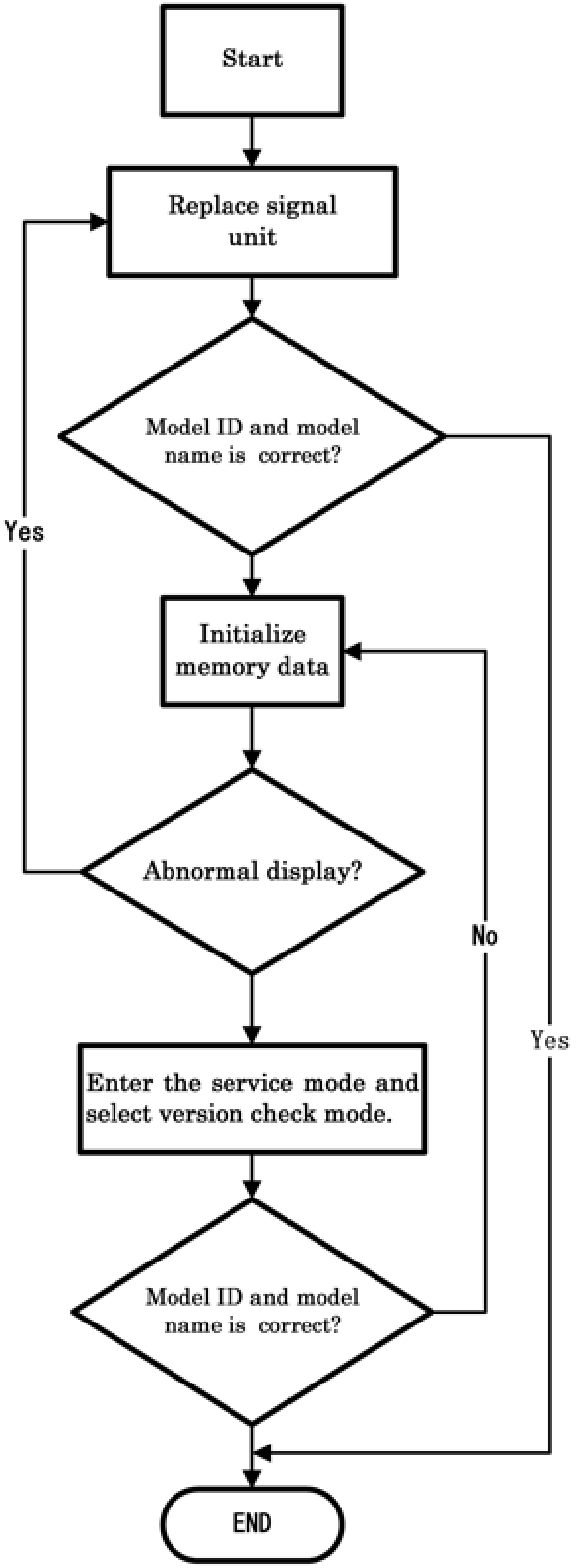
8) Set I2C check function of TVOP to enable.

9) Check the picture carefully. If necessary, adjust any adjustment item above. Perform "Auto tune" on the owner's manual.

MODEL ID (HEX)	Model name	Panel vendor
0x01	32C3000P/3001P/3002P	LPL
0x02	32C3000P/3001P/3002P	IPS
0x03	37C3000P/3001P/3002P	LPL
0x04	37C3000P/3001P/3002P	AUO
0x05	42C3000P/3001P/3002P	LPL
0x06	42C3000P/3001P/3002P	AUO
0x07	32C3030D/3031D	LPL
0x08	32C3030D/3031D	IPS
0x09	37C3030D/3031D	LPL
0x10	37C3030D/3031D	IPS
0x11	42C3030D/3031D	LPL
0x12	42C3030D/3031D	AUO
0x13		
0x14		
0x15		
0x16		
0x17		
0x18		
0x19		
0x20		
0x21		
0x22		
0x23		

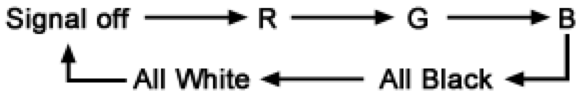
0x24		
0x25		
0x26		
0x27		
0x28		
0x29		
0x30		
0x31		
0x32		
0x33		

Initializing Data setting flowchart after replacing the Signal Unit


Start
Replace signal unit
Model ID and model name is correct?
Yes
Initialize memory data
Abnormal display?
No
Yes
Enter the service mode and select version check mode.
Model ID and model name is correct?
END

Test Signal Selection

Every pressing of ⇥ button on the remote control changes the built-in test patterns on screen as described below in Service Mode.

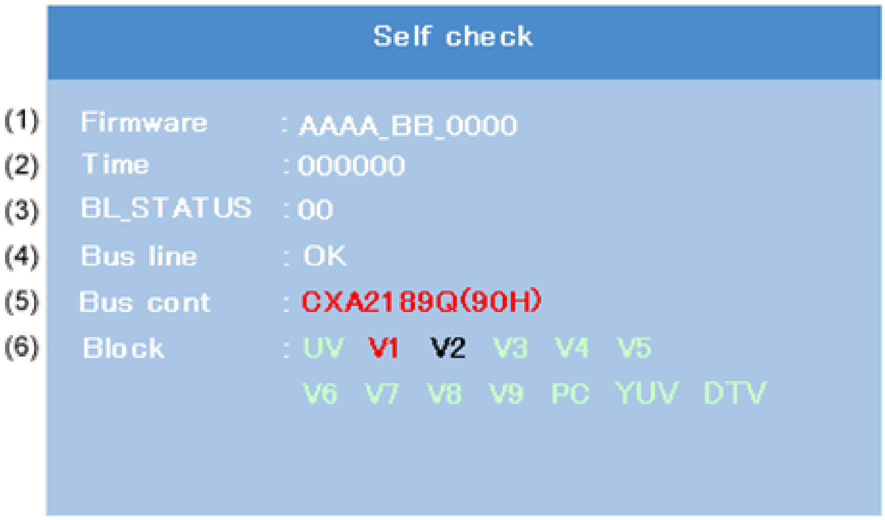


Picture	Signal
	Red raster
	Green raster
	Blue raster
	All Black
	All White

Self Diagnostic Function

1. Press "9" button on remote control during display of adjustment menu in the service mode. The diagnosis will begin to check if interface among IC's is executed properly.
2. During diagnosis, the following displays are shown.

* Self check display and Item are subject to the models.



Self check

(1) Firmware : AAAA_BB_0000
(2) Time : 000000
(3) BL_STATUS : 00
(4) Bus line : OK
(5) Bus cont : CXA2189Q(90H)
(6) Block : UV V1 V2 V3 V4 V5
V6 V7 V8 V9 PC YUV DTV

(1) Firmware :
Version information of microprocessor
Series name (AAAA) and market area (BB) and software program version (0000)

(2) Time : Total hour of turn the TV on. (Unit : H)

(3) BL_STATUS :
Counter for saving BackLight on error.
This value is counted till 99 (Decimal).

(4) Bus line : -- "OK" is normal
SCL-GND (Red indication) : SCL-GND short circuit
SDA-GND (Red indication) : SDA-GND short circuit
SCL-SDA (Red indication) : SCL-SDA short circuit

(5) Bus cont : --- "OK" is normal.
NG is abnormal (Red indication).
When the abnormal status is detected, type name of semiconductor is indicated in red colour.

(6) Block
UV : TV reception mode
V1 - V9 : VIDEO 1-9 input mode
PC : PC mode
YUV : YUV mode
DTV : DTV mode

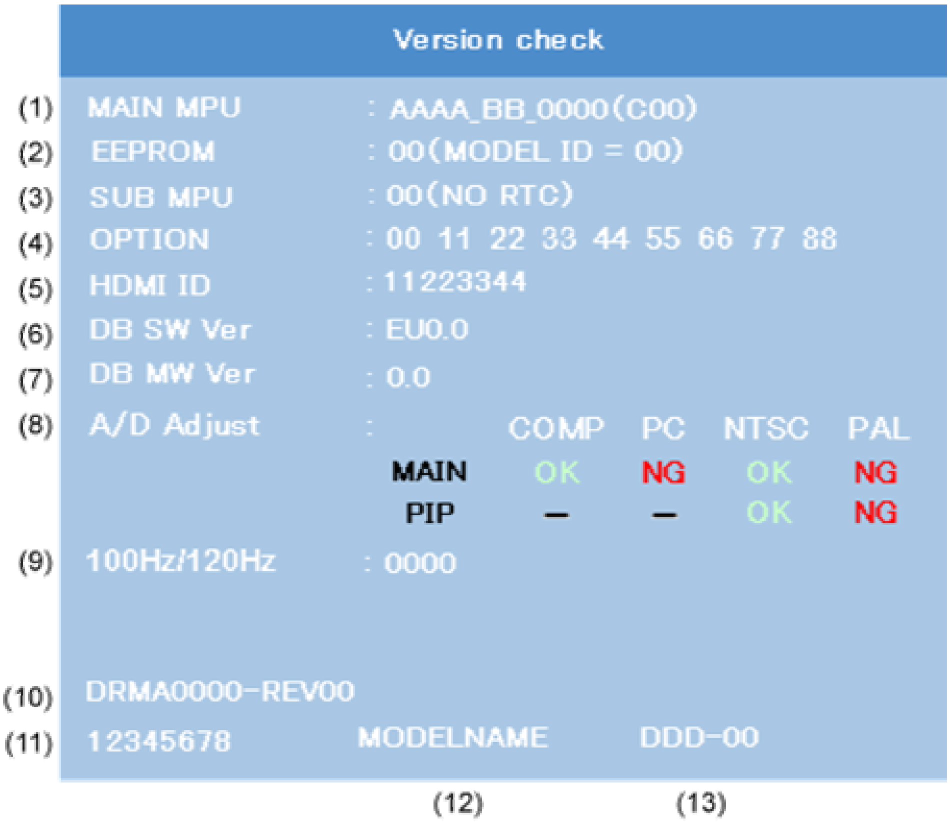
UV	RF
V1	➲1 (SCART (FULL))
	➲2

V2	(SCART (S+AV))
V3	⇥ 3 (Component/Composite)
V4	HDMI1
V5	HDMI2
V6	--
V7	--
V8	--
V9	--
PC	PC
YUV	--
DTV	DTV (Digital Only)

Version Check Mode

1. Press "9" button twice on remote control during display of adjustment menu in the service mode.
   The version of main MPU will be checked.
2. During Version Check, the following displays are shown.

* Version check display and Item are subject to the models.



Version check

MAIN MPU : AAAA_BB_0000(C00)
EEPROM : 00(MODEL ID = 00)
SUB MPU : 00(NO RTC)
OPTION : 00 11 22 33 44 55 66 77 88
HDMI ID : 11223344
DB SW Ver : EU0.0
DB MW Ver : 0.0
A/D Adjust :

	COMP	PC	NTSC	PAL
MAIN	OK	NG	OK	NG
PIP	–	–	OK	NG

100Hz/120Hz : 0000

DRMA0000-REV00
12345678 MODELNAME DDD-00

(1) MAIN MPU :
Version information of microprocessor
Series name and Code Program Version (4 figure number) and OSD Version (2 figure number).

(2) EEPROM :
Version information of EEPROM : Display 1 byte data.

(3) SUB MPU :
Version information of SUB MPU : Display 1 byte data.

(4) OPTION :
Option information : Display six numbers of 1 byte data.

(5) HDMI ID :
HDMI ID information : Display 4 byte data.

(6) SW Ver
Version information of DB software as Toshiba release. (Only digital model.)

(7) MW Ver
Left side is Application and UI version information of DB software. (Only digital model.)
Right side is Firmware (Driver) version information of DB software. (Only digital model.)

(8) A/D Adjust

A/D adjustment item.

--MAIN : It's enable only in double Window model. A/D adjustment status of main picture.
--PIP : It's enable only in double Window model. A/D adjustment status of sub picture.
--COMP : Component input
--PC : PC input
--NTSC : NTSC (60 Hz) SD signal (composite input).
--PAL : PAL (50 Hz) SD signal (composite input).
--OK : A/D adjustment set correctly.
--NG : A/D adjustment set incorrect.
-- : A/D adjustment is not needed. Because its picture format isn't used.

(9) 100 Hz FPGA Software Version

It's enable only in 100 Hz drive panel model.

Upper 2 figure number means function versions of double frequency convert.

Lower 2 figure number means function version of vector complement.

(10) Memory Data Version

Version information of EEPROM.

DRMA**** means model number of EEPROM.

REV** means version of EEPROM.

(11) CD number

CD information (ascii code). : Display 4 byte data.

(12) Model Name

Model name information (ascii code). : Display 7 byte data.

(13) LCD Panel Vendor information display

The following Panel Vendor (DDD) and screen size (00) are displayed.

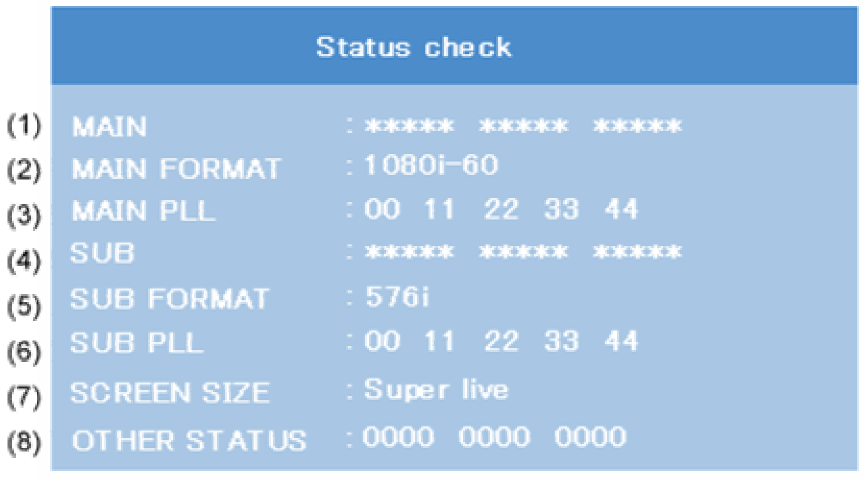
Example : AUO-32 indicates that Vendor is AUO and Screen Size is 32 inch

Status Check Mode

1. Press "9" button thrice on remote control during display of adjustment menu in the service mode.
   The status of this model will be checked.

2. During Status Check, the following displays are shown.

* Status check display and Item are subject to the models.



Status check

(1) MAIN : ****** ****** ******
(2) MAIN FORMAT : 1080i-60
(3) MAIN PLL : 00 11 22 33 44
(4) SUB : ****** ****** ******
(5) SUB FORMAT : 576i
(6) SUB PLL : 00 11 22 33 44
(7) SCREEN SIZE : Super live
(8) OTHER STATUS : 0000 0000 0000

(1) MAIN :

Main source information :

Display RF position number (0 - 99) on the main screen, or Input Source (EXT1/2/3/HDMI etc.)

(2) MAIN FORMAT :

Display Video and PC format information

(3) MAIN PLL :

Main PLL information : Display 1 byte data at five.

(4) SUB :

Sub source information :

Display RF position number (0 - 99) on the Sub screen, or Input Source (EXT1/2/3/HDMI etc.)

This item displays only Double window model.

(5) SUB FORMAT :

Display Video and PC format information

This item displays only Double window model.

(6) SUB PLL :

Sub PLL information : Display 1 byte data at five.

This item displays only Double window model.

(7) SCREEN SIZE :

Display the screen size as follows.

Exact Scan
Wide
Super Live 2

Cinema 2
4:3
Super Live 1
Cinema 1
Subtitle
14:9

Note:

Exact Scan is shown only for 1080p panel model with video input mode except pc.

(8) OTHER STATUS :

Other status information : Display three numbers of 2 byte data.

Setting Hotel Mode

Enter to service mode and select Hotel Mode menu by pressing P▲ or P▼.
After selecting Hotel Mode, press ⊿ + to enter details setting in Hotel Mode.

To select menu, press P▲ or P▼ and press OK to enter the adjustment menu of table bellow.
To move the cursor in the adjustment, press ⊿ + or ⊿ -.

1. By pressing P▲ or P▼, OPT2 setting will change the value either 1 or 0 on selected items as follows;

OP2

OPT2	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7)	- (no use)	-	-
D6 (bit6)	- (no use)	-	-
D5 (bit5)	FRONT Key	Disable	Enable
D4 (bit4)	All keys except input selector key (Video/TV)	Disable	Enable
D3 (bit3)	User remote control operation	Disable (Service mode and Supere User mode may possible to setting only)	Enable
D2 (bit2)	Disable SET UP MENU except	Disable	Enable

	language. (tuning SETUP MENU)	(Display the language only)	
D1 (bit1)	Disable SETUP MENU	Disable	Enable
D0 (bit0)	HOTEL Mode	On (Enable the setting of D1 from to D7)	Off (Normal)

VOLUX

Set VOLUX as following.

1) Set speaker volume to 100. (Any value is OK, but 100 is better to check sound level.)
2) Down value of VOLUX until finding suitable sound volume level.

VOLUX	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7) ~ D0 (bit0)	Max Limiter of Volume Control	0x00 ~ 0x7F (Normal: 0x7C)	

OP6

OPT6	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7)	Enable mode that POS or VIDEO program number will be appeared in forced when turn ON the main power	Enable	Disable
D6 (bit6) ~ D0 (bit0)	POS or VIDEO program number	0 ~ 127 [decimal] (Normal: 0) POS number: 0 ~ 99 VIDEO number: 100 ~ 127 (DTV = 100, VIDEO = 101, VIDEO = 102..) 100 is used as ATV when DTV option is disable.	

OP7

OPT7	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7)	Enable mode that speaker volume will be set in forced when turn ON the main power	Enable	Disable
D6 (bit6) ~	Forced speaker volume	0 ~ 100 [decimal] (Normal: 0)	

D0 (bit0)		Value above 100 is no effect.

OP8

OPT8	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7) ~ D3 (bit3)	- (no use)	-	-
D2 (bit2)	Enable mode that picture mode will be set in forced when turn ON the main power	Enable (Display the language only)	Disable
D1 (bit1) ~ D0 (bit0)	Forced picture mode	0 [dec]: Dynamic (mode-1) (Normal) 1 [dec]: Standard (mode-2) 2 [dec]: Mild (mode-3) 3 [dec]: Memory (mode-M)	

LED Indication

The Green and Red LEDs on the TV (at the bottom center of the TV) indicate the TV's status, as described below.

- Red ON (solid) and Green OFF = The TV power cord is plugged in.
- Green ON (solid) and Red ON = The On timer is operating.

	LED Indication	Condition	Solution
1	Green is OFF; Red blinks continuously at 0.5-second intervals.	Abnormal operation	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.
2	Green is OFF; Red blinks continuously at 1-second intervals.	Abnormal operation of BUS line.	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.

PARTS LIST

Precaution

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" FOR DIRECT VIEW CTV ONLY, "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and
should be replaced only with types identical to those in the original circuit or specified in the parts list.

The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SAFETY PRECAUTION and PRODUCT SAFETY NOTICE.

Do not degrade the safety of the receiver through improper servicing.

Note:

- The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.
- The PC board assembly with ✱ mark is no longer available after the end of the production.

Abbreviations

Capacitors CD : Ceramic Disk

Resistors CF : Carbon film
OMF : Oxide Metal Film
PF : Plastic Film
CC : Carbon Composition
VR : Variable Resistor

EL : Electrolytic
MF : Metal Film
FR : Fusible Resistor

All CD and PF capacitors are ±5 %, 50 V and all resistor, ±5 %, 1/6 W unless otherwise noted.

U03C LED (PE0250)

	Location	Parts No.	Description
*	U03C	75005870	PC BOARD ASSY, PE0250A3, LED
	CB02	75005969	CAPACITOR ELECTROLYTIC 10V 221M 8X5L 85DO 1000H, ESRE100ETC2
	CB03	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CB04	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CB05	75005969	CAPACITOR ELECTROLYTIC 10V 221M 8X5L 85DO 1000H, ESRE100ETC2
	DB01	75005873	LED, 339-1SURSYGW/S530-A3/S195
	DB04	75005873	LED, 339-1SURSYGW/S530-A3/S195
	DB22	23362251	DIODE, SDS511(SOD-323)
	DB23	23362251	DIODE, SDS511(SOD-323)
	GB01	23362042	DIODE, ZENER, UDZS6.8B
	KB01	75002236	IC, GP1UE261RKVF
	PA01B	23713949	CONNECTOR, S7B-PH-K-S(LF)
	QB01	23205357	TRANSISTOR, KTA1504S Y/P
	QB02	23205347	TRANSISTOR, KTC4075Y/P
	QB03	23205347	TRANSISTOR, KTC4075Y/P
	RB08	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
	RB09	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
	RB10	76011221	RESISTOR, CHIP, 1/20W 220 OHM J
	RB11	76011821	RESISTOR, CHIP, 1/20W 820 OHM J
	RB12	76011221	RESISTOR, CHIP, 1/20W 220 OHM J
	RB13	76011153	RESISTOR, CHIP, 1/20W 15K OHM J
	RB14	76011153	RESISTOR, CHIP, 1/20W 15K OHM J
	RB18	76011153	RESISTOR, CHIP, 1/20W 15K OHM J

U03D KEY (PE0250)

	Location	Parts No.	Description
✱	U03D	75005871	PC BOARD ASSY, PE0250A4, KEY
	GA01	23362042	DIODE, ZENER, UDZS6.8B
	GA02	23362042	DIODE, ZENER, UDZS6.8B
	GA03	23362042	DIODE, ZENER, UDZS6.8B
	PA01C	23713938	CONNECTOR, B5B-PH-K-S(LF)
	RA71	76011683	RESISTOR, CHIP, 1/20W 68K OHM J
	RA72	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	RA73	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA74	76000445	CHIP JUMPER, 1608TYPE
	RA77	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA78	76000445	CHIP JUMPER, 1608TYPE
	RA79	76000445	CHIP JUMPER, 1608TYPE
	SA01	23344507	SWITCH, PUSH, SKHHLMA010
	SA02	23344507	SWITCH, PUSH, SKHHLMA010
	SA03	23344507	SWITCH, PUSH, SKHHLMA010
	SA04	23344507	SWITCH, PUSH, SKHHLMA010
	SA05	23344507	SWITCH, PUSH, SKHHLMA010
	SA06	23344507	SWITCH, PUSH, SKHHLMA010
	SA07	23344507	SWITCH, PUSH, SKHHLMA010

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	Location	Parts No.	Description
✱	U04AS	75006506	PC BOARD ASSY, PE0251A1, SIGNAL
	C311	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C312	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C313	V03GD0000559	CHIP CERAMIC CAPACITOR (1608)
	C321	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C322	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C327	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C360	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C361	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C362	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C370	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C371	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C372	V03GD0000578	CHIP CERAMIC CAPACITOR (1608)
	C373	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C374	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C375	V03GD0000578	CHIP CERAMIC CAPACITOR (1608)
	C376	V03GD0000541	CHIP CERAMIC CAPACITOR (1608)
	C377	V03GD0000541	CHIP CERAMIC CAPACITOR (1608)
	C378	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C379	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C388	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C389	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C401	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C404	V03GD0000708	CHIP CERAMIC CAPACITOR (1608)
	C406	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C407	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C408	V03GD0000708	CHIP CERAMIC CAPACITOR (1608)
	C410	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C411	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C414	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C415	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C427	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C428	V03GD0001144	CHIP CERAMIC CAPACITOR (1608)
	C429	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C430	V13GD0000338	CHIP THREE TERMINAL CAPACITOR
	C431	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C432	V03GD0001144	CHIP CERAMIC CAPACITOR (1608)
	C433	V03GD0001144	CHIP CERAMIC CAPACITOR (1608)
	C434	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)

	C435	V03GD0000591	CHIP CERAMIC CAPACITOR (1608)
	C436	V03GD0000574	CHIP CERAMIC CAPACITOR (1608)
	C438	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C439	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C440	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C441	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C442	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C451	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C453	V03GD0000574	CHIP CERAMIC CAPACITOR (1608)
	C454	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C455	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C458	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C459	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C460	V03GD0000543	CHIP CERAMIC CAPACITOR (1608)
	C471	V03GD0000546	CHIP CERAMIC CAPACITOR (1608)
	C473	V03GD0001130	CHIP CERAMIC CAPACITOR (1608)
	C474	V03GD0001130	CHIP CERAMIC CAPACITOR (1608)
	C475	V03GD0001130	CHIP CERAMIC CAPACITOR (1608)
	C476	V03GD0000591	CHIP CERAMIC CAPACITOR (1608)
	C486	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C490	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C491	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C494	V03A000004Q0	CAPACITOR CHIP CERA 25V 104S 3
	C495	V03GD0000585	CHIP CERAMIC CAPACITOR (1608)
	C496	V03GD0000585	CHIP CERAMIC CAPACITOR (1608)
	C730	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C731	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C732	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C733	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C734	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C735	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C736	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C737	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C773	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C774	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C775	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C776	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C777	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C778	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C779	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C780	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)

	C784	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C785	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C786	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C787	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C788	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C789	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C790	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C872	V03GD0001138	CHIP CERAMIC CAPACITOR (1608)
	C873	V03GD0001138	CHIP CERAMIC CAPACITOR (1608)
	C874	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C911	V03GD0001138	CHIP CERAMIC CAPACITOR (1608)
	C912	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C913	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C914	V03GD0000589	CHIP CERAMIC CAPACITOR (1608)
	C915	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C919	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C923	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C924	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C951	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C953	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C2000	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2001	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2002	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2003	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2004	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2005	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2006	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2007	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2008	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2009	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2010	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2011	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2012	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2013	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2014	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2015	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2016	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2017	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2018	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2019	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3002	V03GD0001320	CHIP CERAMIC CAPACITOR (3216)

	C3004	V03GD0001320	CHIP CERAMIC CAPACITOR (3216)
	C3201	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3410	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3411	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C3412	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3413	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C3414	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3415	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C3416	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3417	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C3418	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3419	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C3420	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3421	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C3446	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C7900	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7901	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7902	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7903	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7904	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7905	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7906	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7907	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7908	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7909	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7910	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7911	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7912	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7913	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7914	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7915	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7916	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7917	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7918	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7919	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7920	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7921	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7922	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7923	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C7925	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)

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	C7945	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7946	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7947	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7948	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7949	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7950	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
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	C7963	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
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	C7982	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C9066	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9067	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9070	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C9074	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9202	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9204	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9205	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C9207	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C9208	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)

	C9211	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C9216	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C9219	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9220	V03GD0001128	CHIP CERAMIC CAPACITOR (1608)
	C9221	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C9223	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9224	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	CN320	75001875	CONNECTOR HDMI 1.0MM 19P
	CN321	75001875	CONNECTOR HDMI 1.0MM 19P
	CN322	V22GD0001650	0.5MM PITCH W TO B CONNECTOR
	D201	V42GD0000208	ZENER DIODE
	D202	V42GD0000208	ZENER DIODE
	D203	V42GD0000208	ZENER DIODE
	D204	V42GD0000208	ZENER DIODE
	D205	V42GD0000208	ZENER DIODE
	D206	V42GD0000208	ZENER DIODE
	D207	V42GD0000208	ZENER DIODE
	D208	V42GD0000208	ZENER DIODE
	D209	V42GD0000208	ZENER DIODE
	D210	V42GD0000208	ZENER DIODE
	D211	V42GD0000208	ZENER DIODE
	D212	V42GD0000208	ZENER DIODE
	D213	V42GD0000208	ZENER DIODE
	D214	V42GD0000208	ZENER DIODE
	D215	V42GD0000208	ZENER DIODE
	D216	V42GD0000208	ZENER DIODE
	D224	V42GD0000208	ZENER DIODE
	D225	V42GD0000208	ZENER DIODE
	D400	V42GD0000219	DIODE
	D401	V42GD0000219	DIODE
	D402	V42GD0000219	DIODE
	D403	V42GD0000257	SCHOTTKY BARRIER DIODE
	D500	V42GD0000245	SCHOTTKY BARRIER DIODE
	E101	VF2A00049400	SHIELD SLD SIG TOP EU PRO
	E102	23717306	PPSW 3X5 ECO
	E103	23717306	PPSW 3X5 ECO
	E104	23717306	PPSW 3X5 ECO
	E105	23466412	E02S0607ET15
	E106	23466412	E02S0607ET15
	FL201	75003060	FILTER CHIP BEAD INDUCTOR 470H
	FL202	75003060	FILTER CHIP BEAD INDUCTOR 470H

	FL203	75003060	FILTER CHIP BEAD INDUCTOR 47OH
	FL301	V05A000002Q0	COIL
	FL302	V05A000002Q0	COIL
	FL303	V05A000002Q0	COIL
	FL304	75003116	FILTER CHIP BEAD INDUCTOR 60OH
	FL305	75003411	FILTER CHIP BEAD INDUCTOR 220O
	FL306	75003411	FILTER CHIP BEAD INDUCTOR 220O
	FL310	V01GD0001702	CHIP JUMPER 1608TYPE
	FL326	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL327	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL412	V03A000004Q0	CAPACITOR CHIP CERA 25V 104S 3
	FL413	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL415	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL416	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL417	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL418	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL419	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL420	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL421	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL422	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL423	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL424	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL425	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL426	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL427	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL428	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL432	75003411	FILTER CHIP BEAD INDUCTOR 220O
	FL434	75003114	FILTER CHIP BEAD INDUCTOR 120O
	FL435	75003114	FILTER CHIP BEAD INDUCTOR 120O
	FL436	75003113	FILTER CHIP BEAD INDUCTOR 120O
	FL870	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	FL902	V01GD0001702	CHIP JUMPER 1608TYPE
	FL922	75003112	FILTER CHIP BEAD INDUCTOR 1.0K
	FL923	75003112	FILTER CHIP BEAD INDUCTOR 1.0K
	FL924	75003112	FILTER CHIP BEAD INDUCTOR 1.0K
	FL930	75003114	FILTER CHIP BEAD INDUCTOR 120O
	FL931	75003113	FILTER CHIP BEAD INDUCTOR 120O
	FL932	75003114	FILTER CHIP BEAD INDUCTOR 120O
	FL935	75003113	FILTER CHIP BEAD INDUCTOR 120O
	IC300	75005876	IC 3TO1DVI/HDMI SWITCH
	IC301	V45GD0000462	2 INPUT AND GATE

	IC302	V45GD0000462	2 INPUT AND GATE
	IC310	V45GD0000549	EXCLUSIVE OR GATE
	IC360	V47GD0000571	AUDIO D/A CONVERTER
	IC371	V47GD0000998	DUAL AUDIO OP AMP
	IC387	75003068	IC HDMI RX-KEY
	IC402	75001964	VOLTAGE REGULATOR
	IC403	V47GD0001109	BUCK CONVERTER
	IC404	V46GD0001475	16M(1MX16)BIT FLASH MEMORY
	IC410	V47GD0000702	LOW POWER-LOSS REGURATOR
	IC411	V47GD0000716	VOLTAGE REGULATOR
	IC413	V46GD0001233	128K(16KX8)BIT EEPROM
	IC420	V47GD0001110	STEP-DOWN CONVERTER
	IC700	75006104	IC LCD TV CONTROLLER WITH HDMI
	IC701	75005552	IC 128(8X16)MBIT DDR SDRAM
	IC702	75005552	IC 128(8X16)MBIT DDR SDRAM
	IC705	V45GD0000483	DUAL BILATERAL SWITCH
	IC921	V45GD0000443	EXCLUSIVE OR GATE
	IC923	V45GD0000462	2 INPUT AND GATE
	IC924	V45GD0000462	2 INPUT AND GATE
	L300	75003410	FILTER CHIP BEAD INDUCTOR 33OH
	L302	75003410	FILTER CHIP BEAD INDUCTOR 33OH
	L344	V05GD0000502	CHIP INDUCTOR(3225)
	L430	V05GD0000598	CHIP POWER INDUCTOR
	L431	V05GD0000599	CHIP POWER INDUCTOR
	L912	75003413	FILTER CHIP BEAD 120OHM 0.8A
	L916	75003410	FILTER CHIP BEAD INDUCTOR 33OH
	L920	75003410	FILTER CHIP BEAD INDUCTOR 33OH
	L921	75003411	FILTER CHIP BEAD INDUCTOR 220O
	L922	75003411	FILTER CHIP BEAD INDUCTOR 220O
	L923	75003411	FILTER CHIP BEAD INDUCTOR 220O
	L924	75003410	FILTER CHIP BEAD INDUCTOR 33OH
	L926	75003411	FILTER CHIP BEAD INDUCTOR 220O
	L927	75003411	FILTER CHIP BEAD INDUCTOR 220O
	L928	75003411	FILTER CHIP BEAD INDUCTOR 220O
	L943	75003411	FILTER CHIP BEAD INDUCTOR 220O
	L9031	75003410	FILTER CHIP BEAD INDUCTOR 33OH
	L9032	75003410	FILTER CHIP BEAD INDUCTOR 33OH
	N001	23961276	SOLDER CREAM
	N002	23961260	ER M708E-3.0
	N003	23961257	R M708E 400G
	N004	23961293	S-1061SP-2 C

	N005	23961263	M705ESC 0.6
	N006	23961265	M705ESC 1.0
	N007	23961267	M705ESC 1.6
	N008	23962411	AD EP 3609
	N009	23964124	SOL #4520 UN
	N010	23964899	SOLVENT S-10
	N011	23962432	SR-22530S 25
	PB04A	V28A000318A1	PC BOARD C3000D_SIGNAL
	PJ200	75004070	CONNECTOR W-B 1.5MM 16P V
	PJ22	75001960	1MM PITCH B TO B CONNECTOR
	PJ24	V22GD0000429	1.25MM PITCH BRIDGE CONNECTOR
	PJ80	75003061	CONNECTOR B-B FLOATING 1.25MM
	PJ403	V22GD0001440	2.0MM PITCH SMD NYLON CONNECTO
	PJ404	V22GD0001528	1MM PITCH B TO B CONNECTOR
	PJ920	23713949	B-PH-K-S(LF)
	Q324	V41GD0000236	NPN TRANSISTOR
	Q325	V41GD0000232	NPN TRANSISTOR

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	Location	Parts No.	Description
*	U05A	75005865	PC BOARD ASSY, PE0284A1, EU_DIGITAL
	C301	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C302	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C303	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
	C305	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C306	V03GD0001170	CHIP CERAMIC CAPACITOR (2012)
	C307	V03GD0000840	CHIP CERAMIC CAPACITOR (2012)
	C308	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C309	V03GD0000763	CHIP CERAMIC CAPACITOR (1005)
	C310	V03GD0000798	CHIP CERAMIC CAPACITOR (1005)
	C311	V03GD0000798	CHIP CERAMIC CAPACITOR (1005)
	C312	V03GD0000833	CHIP CERAMIC CAPACITOR (1005)
	C313	V03GD0000833	CHIP CERAMIC CAPACITOR (1005)
	C314	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C315	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C316	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
	C317	V03GD0000740	CHIP CERAMIC CAPACITOR (3216)
	C318	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
	C319	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C320	V03GD0000740	CHIP CERAMIC CAPACITOR (3216)
	C401	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C402	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C403	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C404	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C405	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C406	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C421	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C422	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C431	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C432	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C433	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C434	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C441	V03GD0000573	CHIP CERAMIC CAPACITOR (1608)
	C442	V03GD0000707	CHIP CERAMIC CAPACITOR (1608)
	C443	V03GD0000573	CHIP CERAMIC CAPACITOR (1608)
	C444	V03GD0000573	CHIP CERAMIC CAPACITOR (1608)
	C445	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C446	V03GD0000573	CHIP CERAMIC CAPACITOR (1608)
	C611	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)

	C613	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C614	75005813	CHIP CERAMIC CAPACITOR (1005)
	C615	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C800	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
	C801	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C802	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C803	V03GD0000790	CHIP CERAMIC CAPACITOR (1005)
	C804	V03GD0000790	CHIP CERAMIC CAPACITOR (1005)
	C805	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C806	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C807	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C808	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C809	V03GD0000767	CHIP CERAMIC CAPACITOR (1005)
	C810	V03GD0000767	CHIP CERAMIC CAPACITOR (1005)
	C811	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C812	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C813	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C814	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C815	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C816	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
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	C819	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C820	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C821	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C822	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C823	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C824	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C825	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
	C826	V03GD0000734	CHIP CERAMIC CAPACITOR (2012)
	C828	V03GD0000843	CHIP CERAMIC CAPACITOR (1005)
	C829	V03GD0000843	CHIP CERAMIC CAPACITOR (1005)
	C830	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C831	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
	C834	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C835	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C836	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C837	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C838	75005811	CHIP CERAMIC CAPACITOR (2012)
	C839	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C840	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)

	C901	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C903	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C904	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C905	75002271	CHIP CERAMIC CAPACITOR (1005)
	C906	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C907	V03GD0001144	CHIP CERAMIC CAPACITOR (1608)
	C908	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C909	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C910	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C911	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C912	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C913	V03GD0001093	CHIP ALUMINUM ELECTROLYTIC CAP
	C914	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C915	V03GD0001157	CHIP CERAMIC CAPACITOR (2012)
	C916	75002271	CHIP CERAMIC CAPACITOR (1005)
	C917	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C918	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C951	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
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	C956	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C957	75005814	CHIP CERAMIC CAPACITOR (2012)
	C958	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C959	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C960	V03GD0000729	CHIP CERAMIC CAPACITOR (2012)
	C961	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
	C962	V03GD0000716	CHIP CERAMIC CAPACITOR (1608)
	C1401	V03GD0001170	CHIP CERAMIC CAPACITOR (2012)
	C1402	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1403	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1404	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1406	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C1410	V03GD0000543	CHIP CERAMIC CAPACITOR (1608)
	C1411	V03GD0000549	CHIP CERAMIC CAPACITOR (1608)
	C1412	V03GD0000549	CHIP CERAMIC CAPACITOR (1608)
	C1413	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1414	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1415	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1416	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)

	C1417	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1418	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1419	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1420	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1421	V03GD0000543	CHIP CERAMIC CAPACITOR (1608)
	C1424	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1425	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1426	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1427	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1428	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1429	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1430	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1431	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1601	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1602	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C1603	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1604	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C1701	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1702	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C1703	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1704	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1705	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1706	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1707	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1708	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1709	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1710	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1711	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1712	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1713	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1714	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1715	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1716	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1717	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1718	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1719	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C1720	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1721	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C1722	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1723	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C1724	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)

	C1725	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1726	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1727	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C1801	V03GD0000716	CHIP CERAMIC CAPACITOR (1608)
	C1802	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1803	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1804	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1901	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1902	75005812	CHIP CERAMIC CAPACITOR (1005)
	C1903	75005812	CHIP CERAMIC CAPACITOR (1005)
	C1904	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1905	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C1906	V03GD0000842	CHIP CERAMIC CAPACITOR (1005)
	C1908	V03GD0000707	CHIP CERAMIC CAPACITOR (1608)
	C2001	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2101	75005813	CHIP CERAMIC CAPACITOR (1005)
	C2102	75005813	CHIP CERAMIC CAPACITOR (1005)
	C2201	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2202	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2203	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2204	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2205	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2206	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2207	V03GD0000771	CHIP CERAMIC CAPACITOR (1005)
	C2208	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2209	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2210	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2211	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2212	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2213	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2302	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2303	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2304	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2305	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C2306	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2307	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2308	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2309	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2310	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2401	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C2402	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)

	C2403	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2404	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2405	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2501	V03GD0000828	CHIP CERAMIC CAPACITOR (1005)
	C2502	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C2503	V03GD0001089	CHIP OS-CON (SVPC)
	C2504	V03GD0000828	CHIP CERAMIC CAPACITOR (1005)
	C2505	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2506	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2801	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	D2100	V42GD0000170	SWICHING DIODE
	D2101	V42GD0000170	SWICHING DIODE
	DS111	V44GD0000105	LED
	DS112	V44GD0000105	LED
	FL141	75005866	COIL CHIP INDUCTOR
	FL144	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL145	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL146	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL147	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL148	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL149	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL150	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL151	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL152	V01GD0001702	CHIP JUMPER 1608TYPE
	FL154	V13GD0000251	CHIP BEADS INDUCTOR (1608)
	FL155	V13GD0000251	CHIP BEADS INDUCTOR (1608)
	FL161	V13GD0000299	CHIP BEADS INDUCTOR (1608)
	FL162	V13GD0000299	CHIP BEADS INDUCTOR (1608)
	FL181	V01GD0001702	CHIP JUMPER 1608TYPE
	FL191	V13GD0000299	CHIP BEADS INDUCTOR (1608)
	FL192	V13GD0000246	CHIP BEADS INDUCTOR
	FL193	V13GD0000246	CHIP BEADS INDUCTOR
	FL211	75005818	FILTER CHIP BEAD INDUCTOR 600O
	FL212	75005818	FILTER CHIP BEAD INDUCTOR 600O
	FL213	V01GD0001702	CHIP JUMPER 1608TYPE
	FL214	75005818	FILTER CHIP BEAD INDUCTOR 600O
	FL215	V13GD0000251	CHIP BEADS INDUCTOR (1608)
	FL301	V13GD0000251	CHIP BEADS INDUCTOR (1608)
	FL302	V13GD0000251	CHIP BEADS INDUCTOR (1608)
	FL305	V01GD0001702	CHIP JUMPER 1608TYPE
	FL306	V01GD0001702	CHIP JUMPER 1608TYPE

	FL307	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL308	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL610	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL611	V13GD0000251	CHIP BEADS INDUCTOR (1608)
	FL612	V13GD0000251	CHIP BEADS INDUCTOR (1608)
	FL805	75005817	FILTER CHIP BEAD INDUCTOR 600O
	FL806	75005817	FILTER CHIP BEAD INDUCTOR 600O
	FL808	75005817	FILTER CHIP BEAD INDUCTOR 600O
	FL809	75005817	FILTER CHIP BEAD INDUCTOR 600O
	FL901	V01GD0001702	CHIP JUMPER 1608TYPE
	FL902	V01GD0002067	CHIP RESISTOR (2012)
	FL903	V01GD0001702	CHIP JUMPER 1608TYPE
	FL904	V01GD0002067	CHIP RESISTOR (2012)
	FL905	V01GD0001702	CHIP JUMPER 1608TYPE
	FL906	V01GD0001702	CHIP JUMPER 1608TYPE
	FL907	V01GD0001702	CHIP JUMPER 1608TYPE
	FL951	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL952	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL953	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL954	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL955	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL956	V13A00000400	FILTER
	FL957	V13A00000400	FILTER
	FL958	V13A00000400	FILTER
	FL959	V13A00000400	FILTER
	FL960	V13A00000400	FILTER
	FL964	V01GD0001702	CHIP JUMPER 1608TYPE
	FL965	V01GD0001702	CHIP JUMPER 1608TYPE
	FL966	V01GD0001702	CHIP JUMPER 1608TYPE
	FL970	V13A00000400	FILTER
	FL971	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL972	V13A00000400	FILTER
	IC100	75005824	IC DIGITAL TV SYSTEM LSI
	IC181	V47GD0000938	CMOS RESET IC
	IC182	V45GD0000442	2 INPUT AND GATE
	IC183	V45GD0000442	2 INPUT AND GATE
	IC191	75005830	IC VCXO
	IC201	75002152	64(8X8)KBIT SERIAL EEPROM
	IC221	75005826	IC 256M(16MX16)BIT DDR SDRAM
	IC251	75005829	IC DDR LINEAR REGULATOR
	IC281	75005828	IC 64M(4MX16)BIT FLASH MEMORY

	IC301	V47GD0000571	AUDIO D/A CONVERTER
	IC302	V47GD0000998	DUAL AUDIO OP AMP
	IC401	75005823	IC DVB-CI CONTROLLER
	IC421	75005822	IC OCTAL D-TYPE LATCH
	IC422	75005822	IC OCTAL D-TYPE LATCH
	IC431	V45GD0000413	OCTAL BUS BUFFER
	IC432	V45GD0000420	OCTAL BUFFER/LINE DRIVER
	IC433	75001217	INVERTER
	IC434	V45GD0000490	DUAL 2-INPUT OR GATE
	IC441	75005834	IC CURRENT-LIMITED SWITCH
	IC442	V47A00006100	IC LOW VOLTAGE REGULATOR
	IC801	75005827	IC COFDM DEMODURATOR
	IC901	75005831	IC VOLTAGE REGULATOR
	IC902	75002292	IC
	IC903	V47A00001300	IC
	IC904	75005833	IC VOLTAGE REGULATOR
	IC905	75005832	IC VOLTAGE REGULATOR
	IC906	V47GD0000817	VOLTAGE REGULATOR
	N001	23961276	SOLDER CREAM
	N002	23961260	ER M708E-3.0
	N004	23961293	S-1061SP-2 C
	N005	23961263	M705ESC 0.6
	N006	23961265	M705ESC 1.0
	P200B	75004070	CONNECTOR W-B 1.5MM 16P V
	P212B	V22GD0000971	2.5PITCH NYLON CONNECTOR
	P820A	75005820	2.5PITCH NYLON CONNECTOR
	PB05A	V28A000319A1	PC BOARD C3000D_DIGITAL
	PJ142	V44GD0000155	FIBER-OPTIC
	PJ212	75005819	CONNECTOR W-B 2.5MM 4P ANGLE
	PJ400	75005821	SOCKET PC CARD
	PJ401	23845833	CLAMPER
	PJ402	23845833	CLAMPER
	Q181	V41GD0000246	N-CH MOS FET
	Q350	V41GD0000293	NPN SILICON EPITAXIAL PLANAR T
	Q351	V41GD0000237	NPN/PNP TRANSISTOR
	Q401	V41GD0000236	NPN TRANSISTOR
	Q441	V41GD0000236	NPN TRANSISTOR
	Q611	V41GD0000236	NPN TRANSISTOR
	Q801	V41GD0000236	NPN TRANSISTOR
	Q802	V41GD0000236	NPN TRANSISTOR
	Q951	V41GD0000236	NPN TRANSISTOR

	Q952	V41GD0000249	P-CH MOS FET
	Q953	V41GD0000249	P-CH MOS FET
	Q954	V41GD0000249	P-CH MOS FET
	R301	V01GD0002207	CHIP JUMPER 1005TYPE
	R303	V01GD0001750	CHIP RESISTOR (1005)
	R304	V01GD0001750	CHIP RESISTOR (1005)
	R305	V01GD0001330	CHIP RESISTOR (1005)
	R306	V01GD0001330	CHIP RESISTOR (1005)
	R307	V01GD0001319	CHIP RESISTOR (1005)
	R308	V01GD0001330	CHIP RESISTOR (1005)
	R309	V01GD0001319	CHIP RESISTOR (1005)
	R310	V01GD0001481	CHIP RESISTOR (1005)
	R311	V01GD0001481	CHIP RESISTOR (1005)
	R312	V01GD0001732	CHIP RESISTOR (1005)
	R313	V01GD0001732	CHIP RESISTOR (1005)
	R314	V01GD0001359	CHIP RESISTOR (1005)
	R315	V01GD0001758	CHIP RESISTOR (1005)
	R316	V01GD0001359	CHIP RESISTOR (1005)
	R317	V01GD0001758	CHIP RESISTOR (1005)
	R318	V01GD0001330	CHIP RESISTOR (1005)
	R350	V01GD0001732	CHIP RESISTOR (1005)
	R351	V01GD0001751	CHIP RESISTOR (1005)
	R352	V01GD0001750	CHIP RESISTOR (1005)
	R353	V01GD0001692	CHIP RESISTOR (1005)
	R401	V01GD0002061	CHIP RESISTOR (1005)
	R402	V01GD0001750	CHIP RESISTOR (1005)
	R403	V01GD0001733	CHIP RESISTOR (1005)
	R404	V01GD0001733	CHIP RESISTOR (1005)
	R405	V01GD0001750	CHIP RESISTOR (1005)
	R406	V01GD0001750	CHIP RESISTOR (1005)
	R407	V01GD0001733	CHIP RESISTOR (1005)
	R411	V01GD0002077	CHIP RESISTOR (1005)
	R412	V01GD0002077	CHIP RESISTOR (1005)
	R413	V01GD0002077	CHIP RESISTOR (1005)
	R414	V01GD0002077	CHIP RESISTOR (1005)
	R441	V01GD0002061	CHIP RESISTOR (1005)
	R442	V01GD0001750	CHIP RESISTOR (1005)
	R443	75005806	CHIP RESISTOR (1005)
	R445	V01GD0002207	CHIP JUMPER 1005TYPE
	R611	V01GD0001382	CHIP RESISTOR (1005)
	R612	V01GD0002053	CHIP RESISTOR (1005)

	R613	75005809	CHIP RESISTOR (1005)
	R615	V01GD0001292	CHIP RESISTOR (1005)
	R801	V01GD0002207	CHIP JUMPER 1005TYPE
	R802	V01GD0001732	CHIP RESISTOR (1005)
	R803	V01GD0002077	CHIP RESISTOR (1005)
	R804	V01GD0001736	CHIP RESISTOR (1005)
	R806	V01GD0002077	CHIP RESISTOR (1005)
	R809	V01GD0001744	CHIP RESISTOR (1005)
	R810	V01GD0002207	CHIP JUMPER 1005TYPE
	R811	V01GD0001750	CHIP RESISTOR (1005)
	R812	V01GD0001750	CHIP RESISTOR (1005)
	R814	75005804	CHIP RESISTOR (1005)
	R816	V01GD0002207	CHIP JUMPER 1005TYPE
	R817	V01GD0002207	CHIP JUMPER 1005TYPE
	R818	V01GD0002207	CHIP JUMPER 1005TYPE
	R819	V01GD0002077	CHIP RESISTOR (1005)
	R821	V01GD0001455	CHIP RESISTOR (1005)
	R822	V01GD0001462	CHIP RESISTOR (1005)
	R823	75005807	CHIP RESISTOR (1005)
	R824	V01GD0001455	CHIP RESISTOR (1005)
	R825	V01GD0001462	CHIP RESISTOR (1005)
	R826	75005807	CHIP RESISTOR (1005)
	R827	V01GD0001695	CHIP JUMPER 1005TYPE
	R831	V01GD0001695	CHIP JUMPER 1005TYPE
	R901	V01GD0002207	CHIP JUMPER 1005TYPE
	R902	V01GD0002207	CHIP JUMPER 1005TYPE
	R903	V01GD0002207	CHIP JUMPER 1005TYPE
	R905	V01GD0002207	CHIP JUMPER 1005TYPE
	R906	V01GD0002207	CHIP JUMPER 1005TYPE
	R908	V01GD0002207	CHIP JUMPER 1005TYPE
	R909	V01GD0001732	CHIP RESISTOR (1005)
	R910	V01GD0001732	CHIP RESISTOR (1005)
	R911	V01GD0001732	CHIP RESISTOR (1005)
	R912	V01GD0001732	CHIP RESISTOR (1005)
	R913	V01GD0001732	CHIP RESISTOR (1005)
	R914	V01GD0001732	CHIP RESISTOR (1005)
	R951	V01GD0002077	CHIP RESISTOR (1005)
	R952	V01GD0002077	CHIP RESISTOR (1005)
	R953	V01GD0002207	CHIP JUMPER 1005TYPE
	R954	V01GD0002207	CHIP JUMPER 1005TYPE
	R955	V01GD0002207	CHIP JUMPER 1005TYPE

	R1101	V01GD0001294	CHIP RESISTOR (1005)
	R1102	V01GD0001294	CHIP RESISTOR (1005)
	R1103	V01GD0002207	CHIP JUMPER 1005TYPE
	R1104	V01GD0001294	CHIP RESISTOR (1005)
	R1108	V01GD0001750	CHIP RESISTOR (1005)
	R1201	V01GD0001750	CHIP RESISTOR (1005)
	R1202	V01GD0001750	CHIP RESISTOR (1005)
	R1301	V01GD0001750	CHIP RESISTOR (1005)
	R1401	V01GD0002207	CHIP JUMPER 1005TYPE
	R1402	V01GD0001298	CHIP RESISTOR (1005)
	R1403	75005803	CHIP RESISTOR (1005)
	R1404	75005810	CHIP RESISTOR (1005)
	R1405	75005810	CHIP RESISTOR (1005)
	R1406	75005810	CHIP RESISTOR (1005)
	R1407	V01GD0001737	CHIP RESISTOR (1005)
	R1408	V01GD0001750	CHIP RESISTOR (1005)
	R1411	V01GD0001750	CHIP RESISTOR (1005)
	R1412	V01GD0001750	CHIP RESISTOR (1005)
	R1414	V01GD0001736	CHIP RESISTOR (1005)
	R1415	V01GD0001750	CHIP RESISTOR (1005)
	R1416	V01GD0001750	CHIP RESISTOR (1005)
	R1418	V01GD0001750	CHIP RESISTOR (1005)
	R1420	V01GD0001750	CHIP RESISTOR (1005)
	R1801	V01GD0001739	CHIP RESISTOR (1005)
	R1802	V01GD0001739	CHIP RESISTOR (1005)
	R1803	75005805	CHIP RESISTOR (1005)
	R1804	V01GD0001739	CHIP RESISTOR (1005)
	R1806	V01GD0001739	CHIP RESISTOR (1005)
	R1814	V01GD0001739	CHIP RESISTOR (1005)
	R1816	V01GD0002077	CHIP RESISTOR (1005)
	R1817	V01GD0001451	CHIP RESISTOR (1005)
	R1818	V01GD0001288	CHIP RESISTOR (1005)
	R1820	V01GD0001758	CHIP RESISTOR (1005)
	R1901	75005805	CHIP RESISTOR (1005)
	R1902	V01GD0002207	CHIP JUMPER 1005TYPE
	R1906	V01GD0001746	CHIP RESISTOR (1005)
	R2001	V01GD0001692	CHIP RESISTOR (1005)
	R2002	V01GD0001692	CHIP RESISTOR (1005)
	R2011	V01GD0001739	CHIP RESISTOR (1005)
	R2012	V01GD0001739	CHIP RESISTOR (1005)
	R2101	V01GD0001750	CHIP RESISTOR (1005)

	R2103	V01GD0001750	CHIP RESISTOR (1005)
	R2105	V01GD0001736	CHIP RESISTOR (1005)
	R2106	V01GD0001736	CHIP RESISTOR (1005)
	R2107	V01GD0001736	CHIP RESISTOR (1005)
	R2109	V01GD0001736	CHIP RESISTOR (1005)
	R2110	V01GD0001736	CHIP RESISTOR (1005)
	R2112	V01GD0001750	CHIP RESISTOR (1005)
	R2201	V01GD0001736	CHIP RESISTOR (1005)
	R2202	V01GD0001736	CHIP RESISTOR (1005)
	R2203	V01GD0001736	CHIP RESISTOR (1005)
	R2204	V01GD0001736	CHIP RESISTOR (1005)
	R2301	V01GD0001740	CHIP RESISTOR (1005)
	R2302	V01GD0001740	CHIP RESISTOR (1005)
	R2303	V01GD0001740	CHIP RESISTOR (1005)
	R2304	V01GD0001736	CHIP RESISTOR (1005)
	R2305	V01GD0001736	CHIP RESISTOR (1005)
	R2306	V01GD0001736	CHIP RESISTOR (1005)
	R2307	V01GD0001736	CHIP RESISTOR (1005)
	R2308	V01GD0001736	CHIP RESISTOR (1005)
	R2309	V01GD0001740	CHIP RESISTOR (1005)
	R2310	V01GD0001740	CHIP RESISTOR (1005)
	R2311	V01GD0001736	CHIP RESISTOR (1005)
	R2312	V01GD0001736	CHIP RESISTOR (1005)
	R2313	V01GD0001736	CHIP RESISTOR (1005)
	R2314	V01GD0001736	CHIP RESISTOR (1005)
	R2315	V01GD0001740	CHIP RESISTOR (1005)
	R2316	V01GD0001740	CHIP RESISTOR (1005)
	R2317	V01GD0001736	CHIP RESISTOR (1005)
	R2318	V01GD0001740	CHIP RESISTOR (1005)
	R2319	V01GD0001736	CHIP RESISTOR (1005)
	R2320	V01GD0002077	CHIP RESISTOR (1005)
	R2321	V01GD0002077	CHIP RESISTOR (1005)
	R2322	V01GD0002077	CHIP RESISTOR (1005)
	R2601	V01GD0001750	CHIP RESISTOR (1005)
	R2605	V01GD0001750	CHIP RESISTOR (1005)
	R2607	V01GD0001750	CHIP RESISTOR (1005)
	R2608	V01GD0001750	CHIP RESISTOR (1005)
	R2609	V01GD0001750	CHIP RESISTOR (1005)
	R2612	V01GD0001750	CHIP RESISTOR (1005)
	R2613	V01GD0001750	CHIP RESISTOR (1005)
	R2614	V01GD0001750	CHIP RESISTOR (1005)

	R2616	V01GD0001750	CHIP RESISTOR (1005)
	R2620	V01GD0001750	CHIP RESISTOR (1005)
	R2621	75005809	CHIP RESISTOR (1005)
	R2622	V01GD0001693	CHIP RESISTOR (1005)
	R2701	V01GD0001736	CHIP RESISTOR (1005)
	R2702	V01GD0001736	CHIP RESISTOR (1005)
	R2703	V01GD0001736	CHIP RESISTOR (1005)
	R2704	V01GD0001736	CHIP RESISTOR (1005)
	R2705	V01GD0001736	CHIP RESISTOR (1005)
	R2706	V01GD0001736	CHIP RESISTOR (1005)
	R2707	V01GD0001736	CHIP RESISTOR (1005)
	R2708	V01GD0001736	CHIP RESISTOR (1005)
	R2801	V01GD0001750	CHIP RESISTOR (1005)
	R2804	V01GD0001750	CHIP RESISTOR (1005)
	RM111	V01GD0001212	CHIP NETWORK RESISTOR (1005X4)
	RM114	V01GD0001726	CHIP NETWORK RESISTOR (1005X4)
	RM141	V01GD0002046	CHIP NETWORK RESISTOR (1005X4)
	RM142	V01GD0001218	CHIP NETWORK RESISTOR (1005X4)
	RM143	V01GD0001218	CHIP NETWORK RESISTOR (1005X4)
	RM144	V01GD0002048	CHIP NETWORK RESISTOR (1005X4)
	RM221	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM222	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM223	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM224	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM230	V01GD0001215	CHIP NETWORK RESISTOR (1005X4)
	RM231	V01GD0001215	CHIP NETWORK RESISTOR (1005X4)
	RM232	V01GD0001215	CHIP NETWORK RESISTOR (1005X4)
	RM233	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM234	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM235	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM236	V01GD0001215	CHIP NETWORK RESISTOR (1005X4)
	RM237	V01GD0001215	CHIP NETWORK RESISTOR (1005X4)
	RM239	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM241	V01GD0001215	CHIP NETWORK RESISTOR (1005X4)
	RM242	V01GD0001215	CHIP NETWORK RESISTOR (1005X4)
	RM243	V01GD0001215	CHIP NETWORK RESISTOR (1005X4)
	RM244	V01GD0001215	CHIP NETWORK RESISTOR (1005X4)
	RM245	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM246	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM247	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM248	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)

	RM261	V01GD0001721	CHIP NETWORK RESISTOR (1005X4)
	RM262	V01GD0001721	CHIP NETWORK RESISTOR (1005X4)
	RM263	V01GD0001721	CHIP NETWORK RESISTOR (1005X4)
	RM264	V01GD0001721	CHIP NETWORK RESISTOR (1005X4)
	RM265	V01GD0001721	CHIP NETWORK RESISTOR (1005X4)
	RM271	V01GD0001212	CHIP NETWORK RESISTOR (1005X4)
	RM272	V01GD0001212	CHIP NETWORK RESISTOR (1005X4)
	RM273	V01GD0002048	CHIP NETWORK RESISTOR (1005X4)
	RM274	V01GD0002048	CHIP NETWORK RESISTOR (1005X4)
	RM301	V01GD0002046	CHIP NETWORK RESISTOR (1005X4)
	RM401	V01GD0001212	CHIP NETWORK RESISTOR (1005X4)
	RM402	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM403	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM404	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM405	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM406	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM407	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM408	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM409	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM410	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM411	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM412	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM413	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM414	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM415	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM416	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM418	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM419	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM420	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM421	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM422	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM431	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM432	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)

Miscellaneous

	Location	Parts No.	Description
⚠	B001	75005890	DISPLAY G7LPL32SL22, LC320W01-SL22
	H001	75005892	TUNER, ENGF7702GF
	H001A	23368919	CABLE, PHONO 2.5C 250MM, C4-0807ALI
	H801	75005835	TUNER, TDQD4
	MZ01	75006512	WIRE HARNESS LVDS, V90A00011800
⚠	P801	23372353	POWER CORD, UK 250V3A FL/FUSE13
⚠	P801	23372368	POWER CORD, CEE FL M5206 250V2 206 - 2.3M HOUSING
	PJ22B	75002683	CONNECTOR, 1MM PITCH B TO B, 237702150K4
	PP02	23974994	BAND, KESSOKU
	PP05	23974994	BAND, KESSOKU
	PP08	23974994	BAND, KESSOKU
	W661	75005717	SPEAKER ASSY, SPK1493AO, 60X120 8-OHM 10W
	Z801	23103778	FERRITE CORE, TFE1008
	Z820	23103840	FERRITE CORE, TFE1013
	ZJ200	23103840	FERRITE CORE, TFE1013

Accessory

	Location	Parts No.	Description
⚠	Y101	75005903	MANUAL ENGLISH MANUAL, MANUAL(ENGLISH)
⚠	Y101E	75005900	MANUAL EURO MANUAL, MANUAL(EURO)
	Y101N	75005901	MANUAL NORDIC, MANUAL NORDIC
	Y110	75005902	MANUAL QSUG, QSUG
	Y114	75005904	MANUAL SCHEMATIC DIAGRAM, SCHEMATIC DIAGRAM
	Y130	75005891	REMOCON HAND UNIT, CT-90273
	Y170	23845800	HOLDER, WIRE, NYLON66 D6.8

Cabinet

	Location	Parts No.	Description
	A201	75005895	CESE/COVER/LID FRONT BEZEL ASSY, FRONT BEZEL ASSY
	A320	75005894	PIECE PIECE CTRL S ASSY, PIECE CTRL S ASSY
	A380	23717240	SCREW, BITTB3X10SZN
⚠	A401	75005893	CESE/COVER/LID BACK COVER ASSY, BACK COVER ASSY
	A411	23717267	SCREW, BITTB4X16 SBN
	A412	23717214	SCREW, BITTB3X12SBN
	A420	75006051	LEG STAND KIT FIX
	A425	75006696	LEG FIX BKT ASSY FIX
	A426	75006697	LEG BASE ASSY FIX SS
	A427	75006698	LEG SCREW CAP PP 6*20 SBN
	A428	23717177	LEG SCREW CAP PP 5*12 SBN
	A429	75007210	LEG STAND WRENCH
	A430	75005733	CLAMP HOLDER
	A440	23717177	SCREW, PP5X12+SW+W SBN 32L400V;S2681X011

U01A POWER (PE0252)

	Location	Parts No.	Description
*	U01A	75005838	PC BOARD ASSY, PE0252A1, POWER
⚠	C801	76503510	CAPACITOR, PLASTIC FILM, LE224-C
⚠	C802	76503510	CAPACITOR, PLASTIC FILM, LE224-C
⚠	C803	76503169	CAPACITOR, PLASTIC FILM, 630V 0.1UF J
	C804	76214103	CAPACITOR, CERAMIC DISC, 500V B 0.01UF K
	C805	76092281	CAPACITOR, CERAMIC DISC, AC250V E 4700PF
	C810	76125035	CAPACITOR, ELECTROLYTIC, 450V 470UF M
⚠	C811	76092567	CAPACITOR, CERAMIC DISC, AC250V E 1000PF M
⚠	C812	76092567	CAPACITOR, CERAMIC DISC, AC250V E 1000PF M
	C813	76092616	CAPACITOR, CERAMIC CHIP, 16V B 0.33UF K
	C815	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB31H474KA87L
	C816	76073090	CAPACITOR, ELECTROLYTIC, 50V 100UF M
	C817	76092463	CAPACITOR, CERAMIC CHIP, 16V B 0.22UF K
	C819	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	C820	76092796	CAPACITOR, CERAMIC CHIP, 50V B 0.22UF K
	C821	76092343	CAPACITOR, CERAMIC DISC, 2KV 680PF K
	C822	76092344	CAPACITOR, CERAMIC DISC, 2KV 820PF K
	C823	76092341	CAPACITOR, CERAMIC DISC, 2KV R 470PF K
	C824	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C825	75004442	CAPACITOR, CERAMIC CHIP, 50V B 1UF K
	C826	76092341	CAPACITOR, CERAMIC DISC, 2KV R 470PF K
	C827	76678229	CAPACITOR, ELECTROLYTIC, 200V 2.2UF M
	C883	76125039	CAPACITOR, ELECTROLYTIC, 35V 4700UF M
	C888	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C889	76073094	CAPACITOR, ELECTROLYTIC, 50V 1000UF M
	C890	76092616	CAPACITOR, CERAMIC CHIP, 16V B 0.33UF K
	CE04	76092281	CAPACITOR, CERAMIC DISC, AC250V E 4700PF
	CE05	76092281	CAPACITOR, CERAMIC DISC, AC250V E 4700PF
	CE07	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB31H474KA87L
	CE09	76668339	CAPACITOR, ELECTROLYTIC, 35V 3.3UF M
	CE10	76125040	CAPACITOR, ELECTROLYTIC, 450V 120UF M
	CE12	76092883	CAPACITOR, CERAMIC CHIP, 50V B 0.1UF K
⚠	CE13	76092565	CAPACITOR, CERAMIC DISC, AC250V B 470PF K
⚠	CE14	76092565	CAPACITOR, CERAMIC DISC, AC250V B 470PF K
	CE16	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M
	CE17	76092339	CAPACITOR, CERAMIC DISC, 2KV 330PF K
	CE23	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
	CE24	76285104	CAPACITOR, CERAMIC CHIP, 50V B 0.1UF K
	CE29	76105331	CAPACITOR, CERAMIC CHIP, 50V CH 330PF J
	CE43	76092883	CAPACITOR, CERAMIC CHIP, 50V B 0.1UF K

	CE82	76676470	CAPACITOR, ELECTROLYTIC, 100V 47UF M
	CE85	76073178	CAPACITOR, ELECTROLYTIC, 25V 3300UF M
	D801	23362200	DIODE, D5SB60, 7009F07
	D801B	23717240	SCREW, BITTB3X10SZN
	D805	23357850	DIODE, ZENER, MTZJ9.1A
	D806	23357893	DIODE, ZENER, MTZJ27C
	D809	23357905	DIODE, ZENER, MTZJ36C
	D810	23357893	DIODE, ZENER, MTZJ27C
	D811	23357511	DIODE, AG01A
	D812	23357852	DIODE, ZENER, MTZJ9.1C
	D813	23357512	DIODE, AL01Z
	D852	23357697	DIODE, 1SS133
	D883	75001877	DIODE, FMEN-220A
	D883B	23717240	SCREW, BITTB3X10SZN
	D884	75001877	DIODE, FMEN-220A
	D884B	23717240	SCREW, BITTB3X10SZN
	D885	23357512	DIODE, AL01Z
	D886	23357512	DIODE, AL01Z
⚠	D899	75001869	VARISTOR, V1=470V 2500A/2
	DE01	23362204	DIODE, D3SB60, 7109F08
	DE02	23357511	DIODE, AG01A
	DE03	23357511	DIODE, AG01A
	DE05	23357104	DIODE, 1SS244
	DE06	23357366	DIODE, FR105-B5
	DE07	23357900	DIODE, ZENER, MTZJ33B
	DE09	23357842	DIODE, ZENER, MTZJ6.8B
	DE14	23357512	DIODE, AL01Z
	DE15	23357892	DIODE, ZENER, MTZJ27B
	DE16	23357880	DIODE, ZENER, MTZJ20B
	DE17	23357512	DIODE, AL01Z
	DE72	23357366	DIODE, FR105-B5
	DE75	23357408	DIODE, FMX-12S(023-108)
	DE75B	23717240	SCREW, BITTB3X10SZN
⚠	F801	75005842	FUSE CARTRIDGE 5.2X20, FSL 250V 6.3A (EM)
	F801A	23165433	FUSE HOLDER, 5.2
	F801B	23165433	FUSE HOLDER, 5.2
⚠	F802	23144380	FUSE, RADIAL LEAD SUB-MINIATUR, 250V 3.15A
⚠	FE01	75005841	FUSE RADIAL, 5RT 3.15A
⚠	L801	23217846	TRANSFORMER, CHOKE, TPW2081AS
⚠	L802	23217788	TRANSFORMER, CHOKE, TPW2070AS
	L804	23103304	FERRITE CHOKE, TEM2011AA
	L805	23103304	FERRITE CHOKE, TEM2011AA
	L806	23248417	COIL, CHOKE, TLN3481AH

	L807	23248417	COIL, CHOKE, TLN3481AH
	L874	23103304	FERRITE CHOKE, TEM2011AA
	L875	23103304	FERRITE CHOKE, TEM2011AA
	L876	23103304	FERRITE CHOKE, TEM2011AA
	L878	23103304	FERRITE CHOKE, TEM2011AA
	L883	75005790	COIL, CHOKE, 1.5MMH M 14A, LB1R5 HA
	LE11	23103304	FERRITE CHOKE, TEM2011AA
⚠	P801A	23713702	PLUG, 2P 11.88MM W VT
	P804A	23713942	CONNECTOR, 10P, B10B-PH-K-S(LF)
	P805A	23713942	CONNECTOR, 10P, B10B-PH-K-S(LF)
	P806A	23713759	PLUG, 8P 2.5MM G, B8B-EH-F1-TV4
	P807A	23713757	PLUG, 6P 2.5MM G, B6B-EH-F1-TV4
	PG03	23165495	EARTH TERMINAL, MET31-0332
	PG04	23165495	EARTH TERMINAL, MET31-0332
	Q801	75003052	IC, STR-Z4567
⚠	Q826	23000823	IC, PHOTO COUPLER, TLP421F(GR)
	Q851	23205446	TRANSISTOR, 2SC2412K, Q T146
	Q852	23205446	TRANSISTOR, 2SC2412K, Q T146
	Q883	23135091	IC, SE024N
	QE01	23135072	IC, STRW6765
	QE01B	23717240	SCREW, BITTB3X10SZN
⚠	QE26	23000823	IC, PHOTO COUPLER, TLP421F(GR)
	QE83	23085587	IC, TA76431S
⚠	R801	76004716	RESISTOR, METAL GLAZE, 1/2W 2.2M OHM J
	R803	76366102	RESISTOR, CARBON FILM, 1/6W 1K OHM J
	R805	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R806	76552470	RESISTOR, OXIDE METAL FILM, 1/2W 47 OHM J
	R807	76366393	RESISTOR, CARBON FILM, 1/6W 39K OHM J
	R808	76552101	RESISTOR, OXIDE METAL FILM, 1/2W 100 OHM J
	R809	76321689	RESISTOR, OXIDE METAL FILM, 1/2W 6.8 OHM J
	R812	76552471	RESISTOR, OXIDE METAL FILM, 1/2W 470 OHM J
	R813	76366220	RESISTOR, CARBON FILM, 1/6W 22 OHM J
	R814	76552470	RESISTOR, OXIDE METAL FILM, 1/2W 47 OHM J
	R815	76552100	RESISTOR, OXIDE METAL FILM, 1/2W 10 OHM J
	R816	76011331	RESISTOR, CHIP, 1/20W 330 OHM J
	R817	76377224	RESISTOR, CARBON FILM, 1W 220K OHM J
	R821	76322689	RESISTOR, OXIDE METAL FILM, 1W 6.8 OHM J
	R827	76383103	RESISTOR, OXIDE METAL FILM, 2W 10K OHM J
	R828	76383103	RESISTOR, OXIDE METAL FILM, 2W 10K OHM J
	R853	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R854	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R869	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R873	76871152	RESISTOR, CHIP, 1/8W 1.5K OHM J

	R874	76000445	CHIP JUMPER, 1608TYPE
	R890	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
⚠	R899	76004718	RESISTOR, METAL GLAZE, 1/2W 8.2M OHM J
	RE03	76382104	RESISTOR, OXIDE METAL FILM, 1W 100K OHM J
	RE04	76382104	RESISTOR, OXIDE METAL FILM, 1W 100K OHM J
	RE12	76552221	RESISTOR, OXIDE METAL FILM, 1/2W 220 OHM J
	RE13	76011273	RESISTOR, CHIP, 1/20W 27K OHM J
	RE15	76366102	RESISTOR, CARBON FILM, 1/6W 1K OHM J
	RE16	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RE18	75005839	RESISTOR, RGC2-0.47-OHM-J
	RE19	76310829	RESISTOR, METAL FILM, 1/2W 8.2 OHM J
	RE23	76552152	RESISTOR, OXIDE METAL FILM, 1/2W 1.5K OHM J
	RE38	76871222	RESISTOR, CHIP, 1/8W 2.2K OHM J
	RE39	76011152	RESISTOR, CHIP, 1/20W 1.5K OHM J
	RE43	76011753	RESISTOR, CHIP, 1/20W 75K OHM J
	RE44	76000593	RESISTOR, CHIP, 1/16W 10K OHM F
	RE46	76000448	RESISTOR, CHIP, 1/16W 1.8K OHM F
	RE48	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
⚠	SR81	23146597	RELAY, DC5V 0.25W, DG5D1-O(M)-2
⚠	T801	75005840	FILTER LF 30XH25 16MH 1.6A, LCL-42806-HA
⚠	T802	75005840	FILTER LF 30XH25 16MH 1.6A, LCL-42806-HA
⚠	T862	75003049	TRANSFORMER, ST-3210
⚠	TE62	23217841	TRANSFORMER, CONVERTER, TPW3586AD
	Z889	23144416	FUSE, PROTECTOR, 125V 5A, SMP125M05A00
	ZE72	23144412	FUSE, PROTECTOR, 125V 1A, SMP125M01A00
	ZE75	23144416	FUSE, PROTECTOR, 125V 5A, SMP125M05A00

U02A LOW_B (PE0253)

	Location	Parts No.	Description
*	U02A	75005856	PC BOARD ASSY, PE0253A1, LOW_B
	CE31	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CE100	76092538	CAPACITOR, CERAMIC CHIP, 10V F 1UF Z
	CE102	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CE150	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K
	CE151	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K
	CE200	76073183	CAPACITOR, ELECTROLYTIC, 35V 220UF M
	CE201	76617023	CAPACITOR, ELECTROLYTIC, 16V 330UF M
	CE203	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CE501	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M
	CE531	75005708	CAPACITOR, CHIP CERA, 50V B 0.33UF K, C2012JB1H334KT
	CE532	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CE533	76794101	CAPACITOR, ELECTROLYTIC, 16V 100UF M
	CE551	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K
	CE552	76073189	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	CE571	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M
	CE573	76092859	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CE574	76109223	CAPACITOR, CERAMIC CHIP, 25V B 0.022UF K
	CE730	76795101	CAPACITOR, ELECTROLYTIC, 25V 100UF M
	CE750	76092616	CAPACITOR, CERAMIC CHIP, 16V B 0.33UF K
	CE751	76073150	CAPACITOR, ELECTROLYTIC, 16V 56UF M
	CE800	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M
	CE801	75004442	CAPACITOR, CERAMIC CHIP, 50V B 1UF K
	CE803	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	CE805	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	CE806	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
	DE31	23357862	DIODE, ZENER, MTZJ11B
	DE32	23357862	DIODE, ZENER, MTZJ11B
	DE33	23357855	DIODE, ZENER, MTZJ10C
	DE41	23357703	DIODE, 1SS355
	DE43	23357869	DIODE, ZENER, MTZJ13C
	DE44	23357869	DIODE, ZENER, MTZJ13C
	DE150	23357800	DIODE, ZENER, MA8300-H
	DE151	23357703	DIODE, 1SS355
	DE200	75005719	DIODE, D1NS4-5060
	DE201	23357842	DIODE, ZENER, MTZJ6.8B
	DE501	23357783	DIODE, ZENER, MA8180-L,TX
	DE502	23357703	DIODE, 1SS355
	DE531	23357866	DIODE, ZENER, MTZJ12C

	DE571	23357840	DIODE, ZENER, MTZJ6.2B
	DE573	23357848	DIODE, ZENER, MTZJ8.2B
	DE700	23357835	DIODE, ZENER, MTZJ5.1C
	DE730	23357867	DIODE, ZENER, MTZJ13A
	DE731	23357703	DIODE, 1SS355
	DE801	23357844	DIODE, ZENER, MTZJ7.5A
	LE200	23289049	COIL, PEAKING, TRF4330AU
	LE201	23248399	COIL, CHOKE, TLN3283D
	LE202	23103304	FERRITE CHOKE, TEM2011AA
	LE501	23248417	COIL, CHOKE, TLN3481AH
	LE571	23248417	COIL, CHOKE, TLN3481AH
	LE800	23248417	COIL, CHOKE, TLN3481AH
	LE801	75005857	COIL CHOKE 100MMH M 2.3A, RCP1317NP-101M
	LE802	23248417	COIL, CHOKE, TLN3481AH
	P806B	23713759	PLUG, 8P 2.5MM G, B8B-EH-F1-TV4
	P807B	23713757	PLUG, 6P 2.5MM G, B6B-EH-F1-TV4
	P820B	23713760	PLUG, NP 2.5MM G, B9B-EH-F1A
	PG02	23165495	EARTH TERMINAL, MET31-0332
	QE05	23205330	TRANSISTOR, RN1403(F)
	QE20	75003051	IC, SI-8050W-TL
	QE31	23205568	TRANSISTOR, 2SA1163-GR(TE85L,F
	QE32	23205569	TRANSISTOR, 2SC2713-GR(TE85L,F
	QE40	23205292	TRANSISTOR, 2SD2396
	QE40B	23717240	SCREW, BITTB3X10SZN
	QE53	23085423	IC, KIA7809API-U/P
	QE53B	23717240	SCREW, BITTB3X10SZN
	QE55	75001876	TRANSISTOR, TPC8111(TE12L,Q)
	QE57	75001881	IC, CE-1059
	QE70	75001881	IC, CE-1059
	QE73	23205292	TRANSISTOR, 2SD2396
	QE75	75005858	IC, PQ070XF02SZH
	QE75B	23717240	SCREW, BITTB3X10SZN
	QE80	75005723	IC, MP1591DS-LF-Z
	QE100	23205443	TRANSISTOR, 2SA1162-Y(F)
	QE101	23205446	TRANSISTOR, 2SC2412K, Q T146
	QE102	23205446	TRANSISTOR, 2SC2412K, Q T146
	QE103	23205327	TRANSISTOR, RN1406(F)
	QE150	23085415	IC, BD4746G
	QE500	75001881	IC, CE-1059
	QE501	23205446	TRANSISTOR, 2SC2412K, Q T146
	QE503	23205330	TRANSISTOR, RN1403(F)

	QE552	23205330	TRANSISTOR, RN1403(F)
	QE553	23205567	TRANSISTOR, RN2403(TE85L,F)
	QE554	23205330	TRANSISTOR, RN1403(F)
	QE572	23085338	IC, BD5245G-TR
	QE573	23205446	TRANSISTOR, 2SC2412K, Q T146
	QE574	23205446	TRANSISTOR, 2SC2412K, Q T146
	RE05	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	RE31	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RE32	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	RE33	76553122	RESISTOR, OXIDE METAL FILM, 1W 1.2K OHM J
	RE34	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE35	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	RE41	76552271	RESISTOR, OXIDE METAL FILM, 1/2W 270 OHM J
	RE100	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE101	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE102	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE103	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE104	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RE105	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE106	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE107	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RE108	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RE150	76190014	RESISTOR, CHIP, 1/16W 18K OHM F
	RE151	76190013	RESISTOR, CHIP, 1/16W 22K OHM F
	RE152	76000574	RESISTOR, CHIP, 1/16W 2.7K OHM F
	RE153	76000552	RESISTOR, CHIP, 1/16W 390 OHM F
	RE154	76011333	RESISTOR, CHIP, 1/20W 33K OHM J
	RE155	76011562	RESISTOR, CHIP, 1/20W 5.6K OHM J
	RE200	76000445	CHIP JUMPER, 1608TYPE
	RE501	76011151	RESISTOR, CHIP, 1/20W 150 OHM J
	RE502	76000445	CHIP JUMPER, 1608TYPE
	RE506	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE507	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE508	76871222	RESISTOR, CHIP, 1/8W 2.2K OHM J
	RE509	76871222	RESISTOR, CHIP, 1/8W 2.2K OHM J
	RE551	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	RE552	76011562	RESISTOR, CHIP, 1/20W 5.6K OHM J
	RE571	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE572	76011682	RESISTOR, CHIP, 1/20W 6.8K OHM J
	RE573	76011682	RESISTOR, CHIP, 1/20W 6.8K OHM J
	RE574	76011471	RESISTOR, CHIP, 1/20W 470 OHM J

	RE575	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	RE576	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE577	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	RE578	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE579	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	RE700	76011822	RESISTOR, CHIP, 1/20W 8.2K OHM J
	RE701	76000445	CHIP JUMPER, 1608TYPE
	RE702	76011562	RESISTOR, CHIP, 1/20W 5.6K OHM J
	RE703	76011821	RESISTOR, CHIP, 1/20W 820 OHM J
	RE704	76011182	RESISTOR, CHIP, 1/20W 1.8K OHM J
	RE730	76871122	RESISTOR, CHIP, 1/8W 1.2K OHM J
	RE731	76871122	RESISTOR, CHIP, 1/8W 1.2K OHM J
	RE750	76000573	RESISTOR, CHIP RESISTOR 1/16W 1.0K F
	RE751	76000445	CHIP JUMPER, 1608TYPE
	RE752	76000573	RESISTOR, CHIP RESISTOR 1/16W 1.0K F
	RE800	76011393	RESISTOR, CHIP, 1/20W 39K OHM J
	RE801	76000445	CHIP JUMPER, 1608TYPE
	RE802	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RE803	76011392	RESISTOR, CHIP, 1/20W 3.9K OHM J
	RE804	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE805	76011220	RESISTOR, CHIP, 1/20W 22 OHM J
	RE806	76011562	RESISTOR, CHIP, 1/20W 5.6K OHM J
	RE807	76011821	RESISTOR, CHIP, 1/20W 820 OHM J
	RE808	76011182	RESISTOR, CHIP, 1/20W 1.8K OHM J
	ZE41	23144413	FUSE, PROTECTOR 125V 2A, SMP125M02A00
	ZE730	23144413	FUSE, PROTECTOR 125V 2A, SMP125M02A00

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	Location	Parts No.	Description
✱	U03A	75005868	PC BOARD ASSY, PE0250A1, AV_TERMINAL
	C101	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C102	76762471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	C103	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C104	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	C105	76762471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	C106	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C112	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C114	76105330	CAPACITOR, CERAMIC CHIP, 50V CH 33PF J
	C115	76105330	CAPACITOR, CERAMIC CHIP, 50V CH 33PF J
	C162	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	C164	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C190	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	C415	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	C416	76092731	CAPACITOR, CERAMIC CHIP, 16V B 1UF K
	C417	76109221	CAPACITOR, CERAMIC CHIP, 50V B 220PF K
	C419	76109222	CAPACITOR, CERAMIC CHIP, 50V B 2200PF K
	C457	76092731	CAPACITOR, CERAMIC CHIP, 16V B 1UF K
	C459	76105220	CAPACITOR, CERAMIC CHIP, 50V CH 22PF J
	C460	76109221	CAPACITOR, CERAMIC CHIP, 50V B 220PF K
	C461	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	C462	76109222	CAPACITOR, CERAMIC CHIP, 50V B 2200PF K
	C463	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	C465	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	C645	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C660	76669479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	C661	76669479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	C662	76109681	CAPACITOR, CERAMIC CHIP, 50V B 680PF K
	C663	76109681	CAPACITOR, CERAMIC CHIP, 50V B 680PF K
	C668	76092515	CAPACITOR, CERAMIC CHIP, 16V F 4.7UF Z
	C669	76092515	CAPACITOR, CERAMIC CHIP, 16V F 4.7UF Z
	C670	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	C671	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	C672	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	C673	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	C674	76669010	CAPACITOR, ELECTROLYTIC, 50V 1UF M
	C675	76105221	CAPACITOR, CERAMIC CHIP, 50V CH 220PF J
	C676	76105221	CAPACITOR, CERAMIC CHIP, 50V CH 220PF J
	C677	76667470	CAPACITOR, ELECTROLYTIC, 25V 47UF M

	C678	76567104	CAPACITOR, PLASTIC FILM, 50V 0.1UF J
	C680	76668102	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	C681	76668102	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	C682	76668102	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	C683	76669339	CAPACITOR, ELECTROLYTIC, 50V 3.3UF M
	C683A	23960136	ADHESIVE, SILICONE, TSE3843-W
	C684	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C685	76669010	CAPACITOR, ELECTROLYTIC, 50V 1UF M
	C686	76092463	CAPACITOR, CERAMIC CHIP, 16V B 0.22UF K
	C687	76567104	CAPACITOR, PLASTIC FILM, 50V 0.1UF J
	C689	76092463	CAPACITOR, CERAMIC CHIP, 16V B 0.22UF K
	C690	76073005	CAPACITOR, ELECTROLYTIC, 6.3V 1000UF M
	C691	76666470	CAPACITOR, ELECTORLYTIC, 16V 47UF M
	C692	76666470	CAPACITOR, ELECTORLYTIC, 16V 47UF M
	C695	76665471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	C696	76665471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	C4073	76105220	CAPACITOR, CERAMIC CHIP, 50V CH 22PF J
	C8001	76668102	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	CA01	76092538	CAPACITOR, CERAMIC CHIP, 10V F 1UF Z
	CA02	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CA06	76105100	CAPACITOR, CERAMIC CHIP, 50V CH 10PF D
	CA07	76105090	CAPACITOR, CERAMIC CHIP, 50V CH 9PF C
	CA19	76092538	CAPACITOR, CERAMIC CHIP, 10V F 1UF Z
	CA70	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CA71	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CA91	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CC01	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC02	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC03	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CC04	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CC05	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC06	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC07	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CC08	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CC20	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC21	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC32	76105100	CAPACITOR, CERAMIC CHIP, 50V CH 10PF D
	CG01	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG02	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CG03	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
	CG04	76109221	CAPACITOR, CERAMIC CHIP, 50V B 220PF K

	CG05	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CG06	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG07	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG09	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M
	CG10	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M
	CG11	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M
	CG12	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M
	CG13	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG14	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG15	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CG16	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CG17	76073089	CAPACITOR, ELECTROLYTIC, 50V 47UF M
	CG20	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG21	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CG22	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG23	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	CG24	76669339	CAPACITOR, ELECTROLYTIC, 50V 3.3UF M
	CG25	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CG26	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG27	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG28	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG29	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG30	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG31	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG32	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG33	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG34	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CG35	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG36	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG37	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CG38	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
	CG39	76105560	CAPACITOR, CERAMIC CHIP, 50V CH 56PF J
	CG40	76105560	CAPACITOR, CERAMIC CHIP, 50V CH 56PF J
	CG41	76105560	CAPACITOR, CERAMIC CHIP, 50V CH 56PF J
	CG42	76105050	CAPACITOR, CERAMIC CHIP, 50V CH 5PF C
	CG43	76105010	CAPACITOR, CERAMIC CHIP, 50V CK 1PF C
	CG44	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG45	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG46	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG47	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M
	CG48	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J

	CG49	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG50	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG51	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG52	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CG53	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CG54	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG55	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG56	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG57	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CS01	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS02	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS03	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS04	76797470	CAPACITOR, ELECTROLYTIC, 50V 47UF M
	CS05	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS06	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS07	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS08	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS09	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS10	76797470	CAPACITOR, ELECTROLYTIC, 50V 47UF M
	CS11	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS12	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS13	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	CS14	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	CS15	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS16	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS17	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS18	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS19	76797470	CAPACITOR, ELECTROLYTIC, 50V 47UF M
	CS20	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS21	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS22	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	CS23	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	CS24	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS25	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS26	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS27	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS28	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS31	76203100	CAPACITOR, ELECTROLYTIC, 16V 10UF M
	CS36	76073086	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CS37	76073086	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CS38	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K

	CS39	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CS40	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CS41	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CS42	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CS43	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CV51	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CV52	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CV54	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CV55	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CV56	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CV201	76794101	CAPACITOR, ELECTROLYTIC, 16V 100UF M
	CV221	76092621	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CV222	76092621	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CV223	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CV224	76762471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	CV231	76092621	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CV232	76092621	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CV233	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CV234	76762471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	D401	23362251	DIODE, SDS511(SOD-323)
	D608	23357765	DIODE, ZENER, MA8100-M
	D640	23362251	DIODE, SDS511(SOD-323)
	D641	23362251	DIODE, SDS511(SOD-323)
	D644	23362251	DIODE, SDS511(SOD-323)
	D645	23362251	DIODE, SDS511(SOD-323)
	D670	23362251	DIODE, SDS511(SOD-323)
	D671	23362251	DIODE, SDS511(SOD-323)
	D672	23362251	DIODE, SDS511(SOD-323)
	D673	23362251	DIODE, SDS511(SOD-323)
	D676	23362251	DIODE, SDS511(SOD-323)
	D677	23362251	DIODE, SDS511(SOD-323)
	D678	23362251	DIODE, SDS511(SOD-323)
	DA02	23357703	DIODE, 1SS355
	DA03	23357730	DIODE, ZENER, MA8033-L
	DA11	23357703	DIODE, 1SS355
	DE96	23357840	DIODE, ZENER, MTZJ6.2B
	DG01	23357742	DIODE, ZENER, MA8051-M
	DS01	23362140	DIODE, KDS160-RTK
	DS02	23362140	DIODE, KDS160-RTK
	DS03	23362251	DIODE, SDS511(SOD-323)
	DS04	23362251	DIODE, SDS511(SOD-323)

	DS05	23362251	DIODE, SDS511(SOD-323)
	DS06	23362251	DIODE, SDS511(SOD-323)
	DS10	23362251	DIODE, SDS511(SOD-323)
	DV06	23357762	DIODE, ZENER, MA8091-M
	DV20	23362042	DIODE, ZENER, UDZS6.8B
	DV21	23362042	DIODE, ZENER, UDZS6.8B
	GA56	23362042	DIODE, ZENER, UDZS6.8B
	GJ41	76000445	CHIP JUMPER, 1608TYPE
	GJ42	76000445	CHIP JUMPER, 1608TYPE
	GJ44	76000445	CHIP JUMPER, 1608TYPE
	GR09	23362042	DIODE, ZENER, UDZS6.8B
	GR17	23362042	DIODE, ZENER, UDZS6.8B
	GR18	23362042	DIODE, ZENER, UDZS6.8B
	GR25	23362042	DIODE, ZENER, UDZS6.8B
	GR31	76000445	CHIP JUMPER, 1608TYPE
	GR32	76000445	CHIP JUMPER, 1608TYPE
	GR33	76000445	CHIP JUMPER, 1608TYPE
	GR34	76000445	CHIP JUMPER, 1608TYPE
	GR35	76000445	CHIP JUMPER, 1608TYPE
	GR37	76000445	CHIP JUMPER, 1608TYPE
	GR48	23362042	DIODE, ZENER, UDZS6.8B
	GR603	76000445	CHIP JUMPER, 1608TYPE
	L101	23248385	COIL, CHOKE, TLN3278AA
	L102	76000445	CHIP JUMPER, 1608TYPE
	L103	76000445	CHIP JUMPER, 1608TYPE
	L104	76000445	CHIP JUMPER, 1608TYPE
	L191	75003112	CHIP BEAD INDUCTOR, 1.0KOHM 0.3A, BK1608 HS102-T
	LA90	76000445	CHIP JUMPER, 1608TYPE
	LA91	76000445	CHIP JUMPER, 1608TYPE
	LA92	76000445	CHIP JUMPER, 1608TYPE
	LA93	76000445	CHIP JUMPER, 1608TYPE
	LA94	76000445	CHIP JUMPER, 1608TYPE
	LC01	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LC02	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LC05	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LC06	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LG01	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LG02	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LV202	23103314	COIL, FILTER, TEM2028AH
	P601	23713755	PLUG, 4P 2.5MM G, B4B-EH-F1-TV4
	P803B	23713818	SOCKET, TWG-P19X-A1

	P810B	23713814	SOCKET, 127301109K2
	PA01A	23713944	CONNECTOR, B12B-PH-K-S(LF)
	PH01	75001989	CONNECTOR, MULTI 21P, CSS5021-9C01F
	PH02	75001989	CONNECTOR, MULTI 21P, CSS5021-9C01F
	PJ22A	75001960	CONNECTOR, 1MM PITCH B TO B, 137701150W3
	PL212	23713938	CONNECTOR, B5B-PH-K-S(LF)
	PV01	75004443	JACK PIN, **P+**S, LAP5000-2207F
	PV25B	75004070	CONNECTOR, B16B-CZHK-B-1(LF)(SN)(V)
	PV90	23713710	SOCKET, D-SUB 15P, KRD-8622
	Q101	23205347	TRANSISTOR, KTC4075Y/P
	Q400	23205346	TRANSISTOR, KTA2014Y/P
	Q401	23205346	TRANSISTOR, KTA2014Y/P
	Q402	23205347	TRANSISTOR, KTC4075Y/P
	Q407	23205346	TRANSISTOR, KTA2014Y/P
	Q408	23205346	TRANSISTOR, KTA2014Y/P
	Q409	23205347	TRANSISTOR, KTC4075Y/P
	Q410	23205347	TRANSISTOR, KTC4075Y/P
	Q630	23009942	IC, LA4525-E
	Q660	23205347	TRANSISTOR, KTC4075Y/P
	Q661	23205347	TRANSISTOR, KTC4075Y/P
	Q662	23205222	TRANSISTOR, SRA2204S (SOT-23)
	Q663	23205347	TRANSISTOR, KTC4075Y/P
	Q670	23085826	IC, TA8246AHQ(5)
	Q670B	23717240	SCREW, BITTB3X10SZN
	Q671	23205424	TRANSISTOR, KTC2875B/P
	Q672	23205424	TRANSISTOR, KTC2875B/P
	Q673	23205357	TRANSISTOR, KTA1504S Y/P
	Q675	23205424	TRANSISTOR, KTC2875B/P
	Q676	23205424	TRANSISTOR, KTC2875B/P
	Q682	23205222	TRANSISTOR, SRA2204S (SOT-23)
	Q4100	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
	Q4101	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
	Q4102	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
	Q4103	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
	QA01	75003460	IC, T5CB5-6K14(F,JZ)
	QA03	75001878	IC, TC7SH126FU(TE85L,F)
	QA72	23205347	TRANSISTOR, KTC4075Y/P
	QA73	23205347	TRANSISTOR, KTC4075Y/P
	QG01	75005874	IC, MSP4410K-QI-D7-100
	QG02	23085415	IC, BD4746G
	QG03	23205208	TRANSISTOR, SRC1204S(SOT-23)

	QG04	23205358	TRANSISTOR, KTC3875S Y/P
	QG05	23085576	IC, OP AMP, BA4558F
	QG06	23085576	IC, OP AMP, BA4558F
	QG07	23085576	IC, OP AMP, BA4558F
	QS01	23009613	IC, CD4052BNSR
	QS02	23009614	IC, CD4053BNSR
	QS03	23009614	IC, CD4053BNSR
	QS04	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QS05	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QS06	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QS07	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QS08	23205347	TRANSISTOR, KTC4075Y/P
	QS09	23205347	TRANSISTOR, KTC4075Y/P
	QS10	23205347	TRANSISTOR, KTC4075Y/P
	QS11	23205347	TRANSISTOR, KTC4075Y/P
	QS12	23205222	TRANSISTOR, SRA2204S (SOT-23)
	QS13	23205424	TRANSISTOR, KTC2875B/P
	QS14	23205424	TRANSISTOR, KTC2875B/P
	QS15	23205222	TRANSISTOR, SRA2204S (SOT-23)
	QS16	23205424	TRANSISTOR, KTC2875B/P
	QS17	23205424	TRANSISTOR, KTC2875B/P
	QS18	23205347	TRANSISTOR, KTC4075Y/P
	QS19	23205424	TRANSISTOR, KTC2875B/P
	QS20	23205325	TRANSISTOR, RN2404(F)
	QS24	23205424	TRANSISTOR, KTC2875B/P
	QS25	23205424	TRANSISTOR, KTC2875B/P
	QS26	23205222	TRANSISTOR, SRA2204S (SOT-23)
	QS30	23205424	TRANSISTOR, KTC2875B/P
	QS31	23205424	TRANSISTOR, KTC2875B/P
	QS32	23205424	TRANSISTOR, KTC2875B/P
	QS33	23205424	TRANSISTOR, KTC2875B/P
	QS34	23205424	TRANSISTOR, KTC2875B/P
	QV17	23085823	IC, MM1508XNRE
	QV18	23085823	IC, MM1508XNRE
	QV21	23205443	TRANSISTOR, 2SA1162-Y(F)
	QV22	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
	QV23	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
	QV24	23205347	TRANSISTOR, KTC4075Y/P
	QV25	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QV26	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QV30	23205346	TRANSISTOR, KTA2014Y/P

	QV31	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QV32	23205346	TRANSISTOR, KTA2014Y/P
	QV33	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QV51	23205347	TRANSISTOR, KTC4075Y/P
	QV52	23205347	TRANSISTOR, KTC4075Y/P
	QV53	23205347	TRANSISTOR, KTC4075Y/P
	QV54	23205347	TRANSISTOR, KTC4075Y/P
	QV55	23205347	TRANSISTOR, KTC4075Y/P
	R103	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	R104	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R105	76011273	RESISTOR, CHIP, 1/20W 27K OHM J
	R114	76000445	CHIP JUMPER, 1608TYPE
	R167	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	R169	76000445	CHIP JUMPER, 1608TYPE
	R170	76011682	RESISTOR, CHIP, 1/20W 6.8K OHM J
	R459	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	R460	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	R461	76011750	RESISTOR, CHIP, 1/20W 75 OHM J
	R462	76011474	RESISTOR, CHIP, 1/20W 470K OHM J
	R463	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R464	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R465	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R466	76011333	RESISTOR, CHIP, 1/20W 33K OHM J
	R601	76554470	RESISTOR, OXIDE METAL FILM, 2W 47 OHM J
	R634	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R635	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R636	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R640	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R641	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R662	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	R666	76011563	RESISTOR, CHIP, 1/20W 56K OHM J
	R668	76871229	RESISTOR, CHIP, 1/8W 2.2 OHM J
	R669	76871229	RESISTOR, CHIP, 1/8W 2.2 OHM J
	R670	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R671	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R672	76011182	RESISTOR, CHIP, 1/20W 1.8K OHM J
	R673	76011182	RESISTOR, CHIP, 1/20W 1.8K OHM J

U03B FRONT_AV (PE0250)

	Location	Parts No.	Description
✱	U03B	75005869	PC BOARD ASSY, PE0250A2, FRONT_AV
	C604	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C605	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	CC11	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC12	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC13	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC14	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	P661	23365444	EARPHONE JACK, D3.5
	PV25A	75004070	CONNECTOR, B16B-CZHK-B-1(LF)(SN)(V)
	PV60	23365275	PHONO JACK, 3P V-L-R, YKC21
	R696	76871221	RESISTOR, CHIP, 1/8W 220 OHM J
	R697	76871221	RESISTOR, CHIP, 1/8W 220 OHM J
	R698	76871221	RESISTOR, CHIP, 1/8W 220 OHM J
	R699	76871221	RESISTOR, CHIP, 1/8W 220 OHM J
	RC11	76011821	RESISTOR, CHIP, 1/20W 820 OHM J
	RC12	76011821	RESISTOR, CHIP, 1/20W 820 OHM J
	RV10	76000445	CHIP JUMPER, 1608TYPE
	RV123	76872750	RESISTOR, CHIP, 1/16W 75 OHM J
	RV129	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RV270	76000445	CHIP JUMPER, 1608TYPE

FUNCTION AND OPERATION

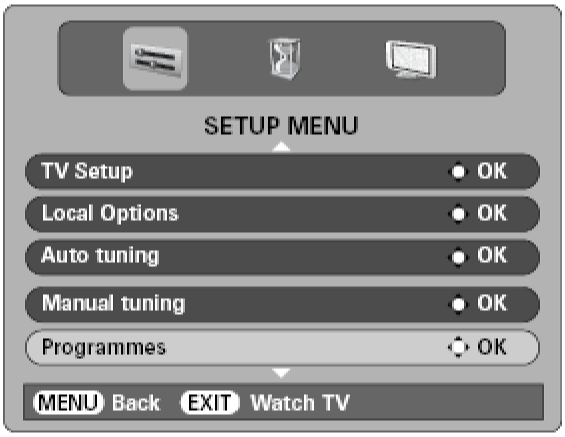
Digital Programme Sorting, Manual Tuning

Note: When the television is switched off the mode being viewed at the time will automatically be selected when the television is switched back on.

Programme Sorting

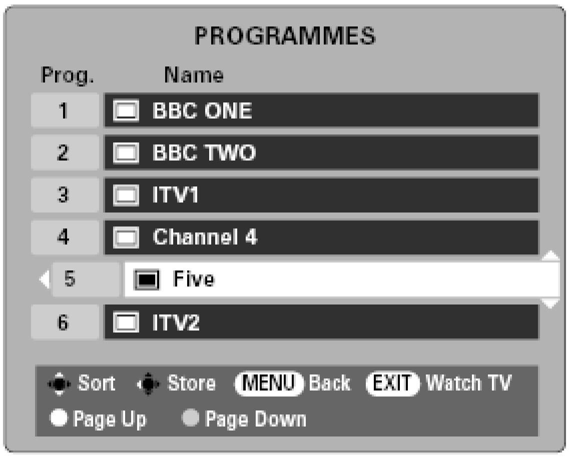
1. The station order may be changed to suit personal preference. Press **MENU**, the **SETUP MENU** will appear on screen.

2. Use ▼ to move down through the list and highlight **Programmes**. Press **OK**.


SETUP MENU
TV Setup ● OK
Local Options ● OK
Auto tuning ● OK
Manual tuning ● OK
Programmes OK
MENU Back EXIT Watch TV

3. With the list of stations now showing use ▼ or ▲ to highlight the station you want to move and press ▶.

   The selected station will be moved to the right of the screen.


PROGRAMMES

Prog.	Name
1	BBC ONE
2	BBC TWO
3	ITV1
4	Channel 4
5	Five
6	ITV2

Sort
Store
MENU Back
EXIT Watch TV
● Page Up
● Page Down

4. Use ▼ or ▲ to move through the list to your *preferred* position. As you do so the other stations will move to make room.

5. Press ◀ to store your move. Repeat as necessary, then press **EXIT**.

Manual Tuning

This feature is available for service engineers or can be used for direct channel entry if the multiplex channel is known.

1. Select **Manual tuning** from the **SETUP MENU** and press **OK**.

2. Enter the multiplex number using the number buttons and then press **OK**. The television will automatically search for that multiplex.

   When the multiplex is found any channels not currently on the programme list will be added and the programme information at the top of the screen will be updated.

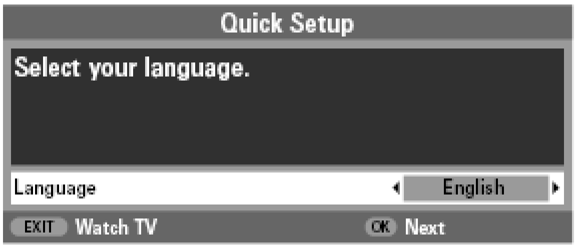
3. Repeat as necessary. Press **EXIT** to finish.

FUNCTION AND OPERATION

Tuning Analogue Mode for the First Time

The **Quick Setup** feature will tune all **analogue** channels currently available in the area. To put the television into **ATV** mode press the **A/D** button.

1 Select **ATV** mode. The **Quick Setup** screen will appear.



Quick Setup

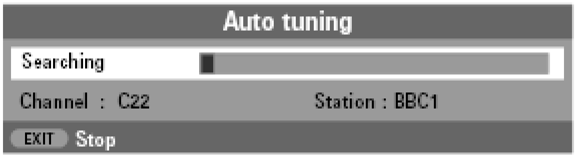
Select your language.

Language ◀ English ▶

2 Using ◀ or ▶ select your **language**, then press **OK**.

3 Then press ◀ or ▶ to select your **country**.

4 To start **Auto tuning** press **OK**.



Auto tuning

Searching

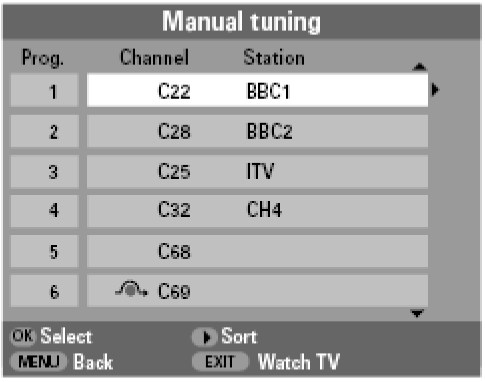
Channel : C22

Station : BBC1

5 The search will begin for all available stations. The slide bar will move along the line as the search progresses.

You must allow the television to complete the search.

When the search is complete the television will automatically select programme position 1 and the **Manual tuning** screen will appear.



Manual tuning
Prog.
Channel
Station
OK Select
Sort
MENU Back
EXIT Watch TV

Prog.	Channel	Station
1	C22	BBC1
2	C28	BBC2
3	C25	ITV
4	C32	CH4
5	C68	
6	C69	

6 Use ▼ or ▲ to move through the list to select a programme then press **EXIT** to view.

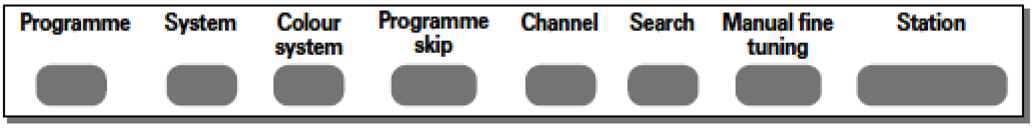
The station order may be changed using the **Manual tuning** screen.

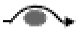
FUNCTION AND OPERATION

Analogue Manual Tune

The television can be tuned-in manually using **Manual tuning**. For example: if the television cannot be connected to a media recorder/decoder with a SCART lead or to tune-in a station on another **System**.

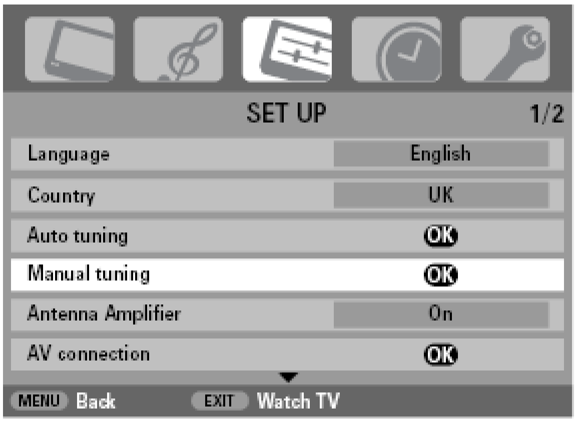
Use ◀ and ▶ to move across the screen and select any of these Manual Tune options.



Programme	:	**The number to be pressed on the remote control.**
System	:	**Specific to certain areas.**
Colour system	:	**Factory set to Auto, should only be changed if problems are experienced, i.e. NTSC input from external source.**
Programme skip	:	 **means nothing has been stored or the facility to skip the channel is ON.**
Channel	:	**The channel number on which a station is being broadcast.**
Search	:	**Search up and down for a signal.**
Manual fine tuning	:	**Only used if interference/weak signal is experienced.**
Station	:	**Station identification. Use the ▲ or ▼ and ◀ or ▶ buttons to enter up to seven characters.**

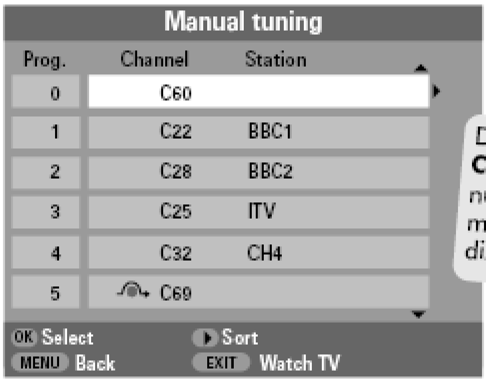
To allocate a programme position on the television for a decoder and media recorder: turn the decoder on, insert a pre-recorded film in the media recorder and press PLAY, then manually tune.

1 Press **MENU** and using ◀ or ▶ select the **SET UP** menu, with ▼ highlight **Manual tuning**, press **OK** to select.


SET UP
1/2
MENU Back
EXIT Watch TV

Language	English
Country	UK
Auto tuning	OK
Manual tuning	OK
Antenna Amplifier	On
AV connection	OK

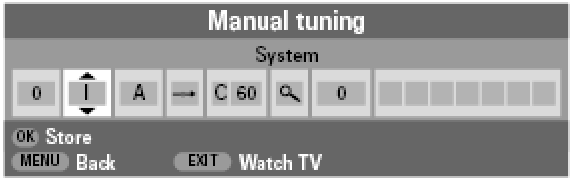
2 Use ▲ or ▼ to highlight the programme position required e.g. we suggest ***Prog. 0*** for a media recorder.


Manual tuning
OK Select
▶ Sort
MENU Back
EXIT Watch TV

Prog.	Channel	Station
0	C60	
1	C22	BBC1
2	C28	BBC2
3	C25	ITV
4	C32	CH4
5	C69	

Different **Channel** numbers may be displayed

3. Press **OK** to select. If the programme is skipped, **Programme skip** must be removed before storing.



Manual tuning

System

0 | I | A | → | C 60 | 🔍 | 0

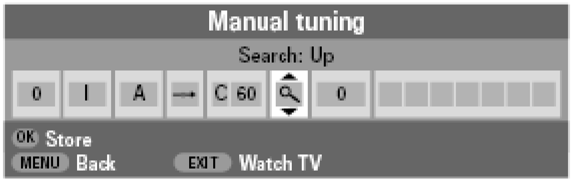
OK Store

MENU Back   EXIT Watch TV

4. Press ▶ to select **System** and use ▲ or ▼ to change if required.

5. Then press ▶ to select **Search**.

6. Press ▲ or ▼ to begin the search. The search symbol will flash.



Manual tuning

Search: Up

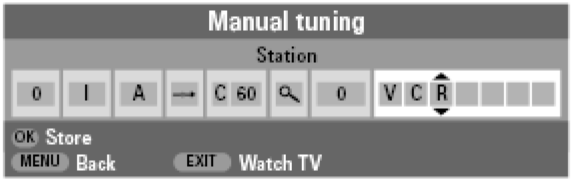
0 | I | A | → | C 60 | 🔍 | 0

OK Store

MENU Back   EXIT Watch TV

7. Each signal will show on the television, if it is not your media recorder, press ▲ or ▼ again to restart the search.

8. When your media recorder signal is found, press ▶ to move along to **Station**. With ▲, ▼, ◀ and ▶ put in the required characters, *e.g.* **VCR**.


Manual tuning
Station
0
I
A
C 60
0
V C R
OK Store
MENU Back
EXIT Watch TV

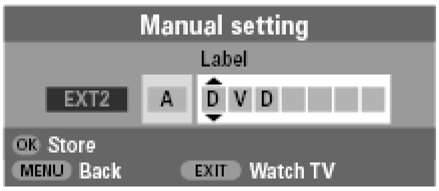
9. Press **OK** to store.

10. Repeat for each ***programme position*** you want to tune or, press **MENU** to return to the list of channels and select the next number to tune.

11. Press **EXIT** when you have finished.

12. To name external equipment, *e.g.* DVD on EXT2, press ⊕ to select ⊕**2**, then select **Manual setting** from the **SET UP** menu.

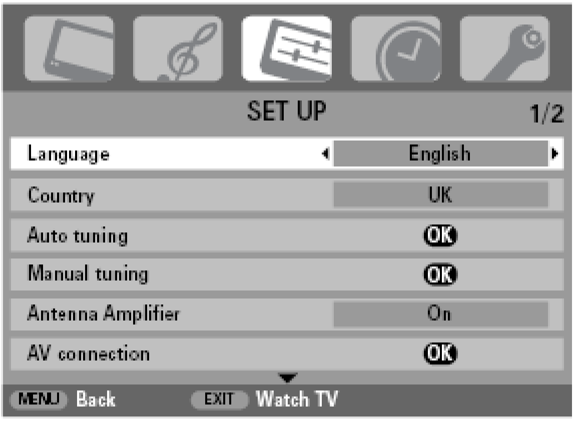
13. Press ▶ to select **Label** then using ▲, ▼, ◀ and ▶ put in the required characters. Press **OK**.


Manual setting
Label
EXT2
A
D V D
OK Store
MENU Back
EXIT Watch TV

PLEASE NOTE This television has direct channel entry if the channel numbers are known. Select the **Manual tuning** screen in ***Step 3***. Enter the **Programme number**, the **System**, then **C** for standard (terrestrial) channels or **S** for cable channels and the **Channel** number. Press **OK** to store.

Using Auto Tuning

1. To set up the television using **Auto tuning**, press **MENU** and use ◀ or ▶ to select the **SET UP** menu.

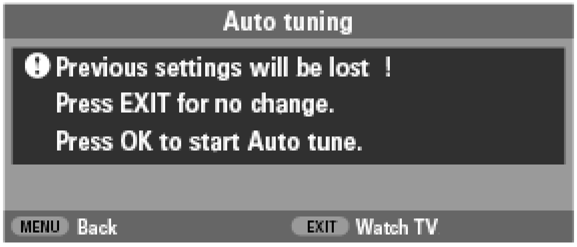

SET UP 1/2

Language	English
Country	UK
Auto tuning	OK
Manual tuning	OK
Antenna Amplifier	On
AV connection	OK

2. Press ▼ to highlight **Language** and ◀ or ▶ to select.

3. Using ▼ highlight **Country**, then ◀ or ▶ to select. The television will now tune the stations for your country.

4. Press ▼ to highlight **Auto tuning**, then press **OK**.


Auto tuning

Previous settings will be lost !
Press EXIT for no change.
Press OK to start Auto tune.

5. To start **Auto tuning** press **OK**.

You must allow the television to complete the search.

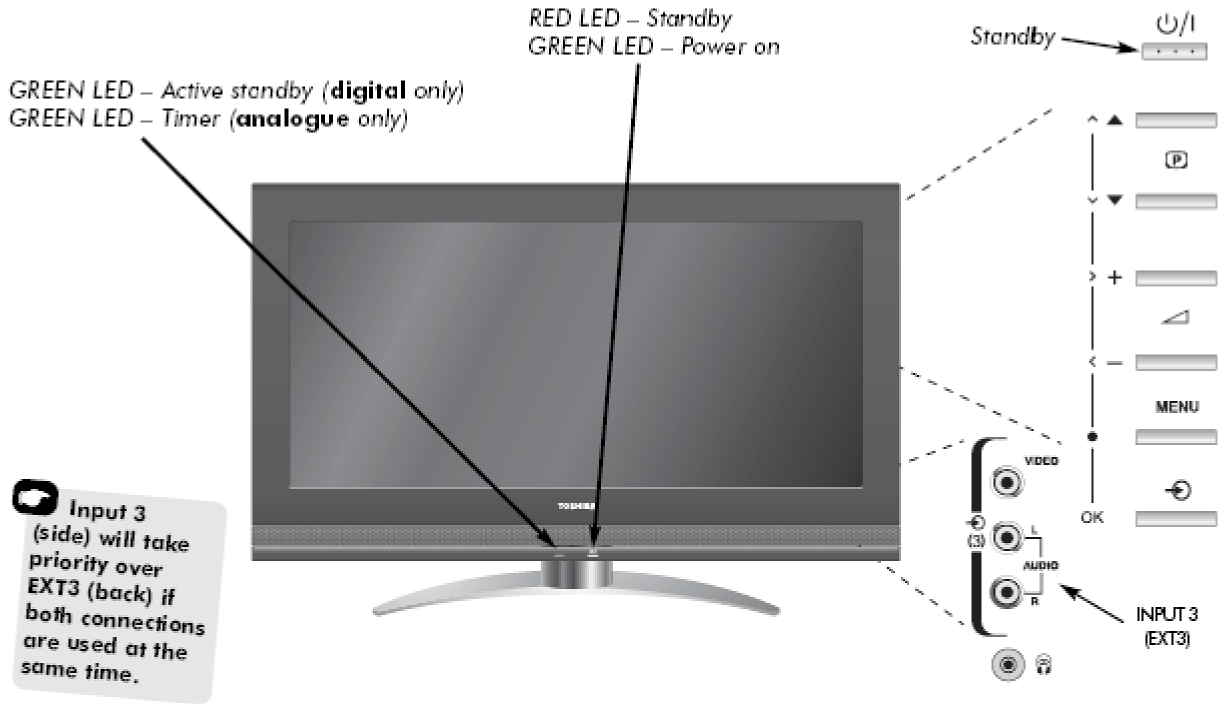
When the search is complete the television will automatically select programme position 1. This may not be a clear picture, so the station order can be changed.

FUNCTION AND OPERATION

Control and Input Connection

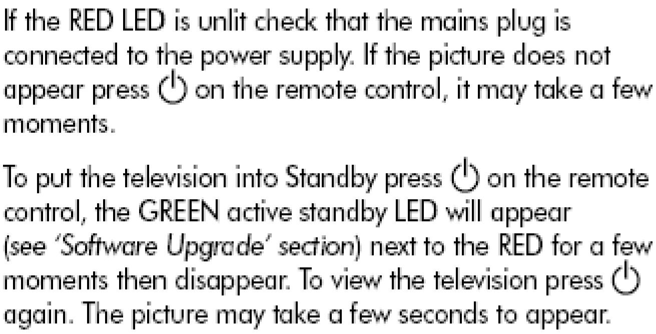
A wide variety of external equipment can be connected to the input sockets on the side of the television.

Whilst all the necessary adjustments and controls for the television are made using the remote control, the buttons on the television may be used for some functions.


RED LED – Standby
GREEN LED – Power on
GREEN LED – Active standby (**digital** only)
GREEN LED – Timer (**analogue** only)
Standby
⏻/I
P
MENU
OK
VIDEO
(3)
L
AUDIO
R
INPUT 3
(EXT3)

Input 3 (side) will take priority over EXT3 (back) if both connections are used at the same time.

Switching On


If the RED LED is unlit check that the mains plug is connected to the power supply. If the picture does not appear press ⏻ on the remote control, it may take a few moments.

To put the television into Standby press ⏻ on the remote control, the GREEN active standby LED will appear (see *'Software Upgrade'* section) next to the RED for a few moments then disappear. To view the television press ⏻ again. The picture may take a few seconds to appear.

Using the Remote Control

Press the **MENU** button on the remote control to see the menus.

In **digital** mode the menu bar at the top of the screens will show three different topics shown in symbols. As each symbol is selected by pressing the ◀ or ▶ button on the remote control, its respective options will appear below.

In **analogue** mode the menu appears as a list of five topics. As each symbol is selected by pressing the ◀ or ▶ button on the remote control, its respective options will appear below.

To use the options press the ▲ and ▼ button on the remote control to move up and down through them and **OK**, ◀ or ▶ to select the required choice. Follow the on screen instructions. The functions of each menu are described in detail throughout the manual.

Using the Control and Connection

To alter the volume press — ⊿ +.

To alter the programme position press ▼ Ⓟ ▲.

Press **MENU** and ❮, ❯, ⌄ or ⌃ to control the sound and picture options.

Press **MENU** twice to finish.

When connecting sound equipment to **EXT3**, connect the audio output of the equipment to the phono sockets on the television.

To select the Input, press ⊕ until the display shows **EXT3** as described. The television will automatically sense the type of signal.

Please always refer to the owner's manual of the equipment to be connected for full details.

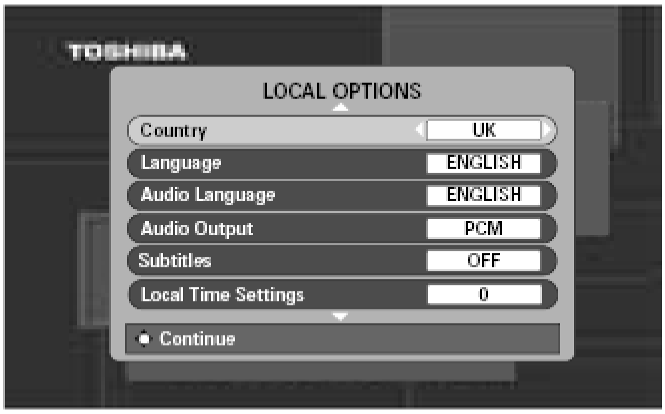
Please note: Inserting the headphone plug will mute the sound from all speakers.

FUNCTION AND OPERATION

Tuning Digital Television for the First Time

Before switching on the television put your decoder and media recorder to **Standby** if they are connected and ensure the aerial is connected. To set up the television use the buttons on the remote control.

1 Press the ⏻ button, the **LOCAL OPTIONS** screen will appear. This screen will appear the first time that the television is switched on and each time the television is reset.



LOCAL OPTIONS

Country UK
Language ENGLISH
Audio Language ENGLISH
Audio Output PCM
Subtitles OFF
Local Time Settings 0
Continue

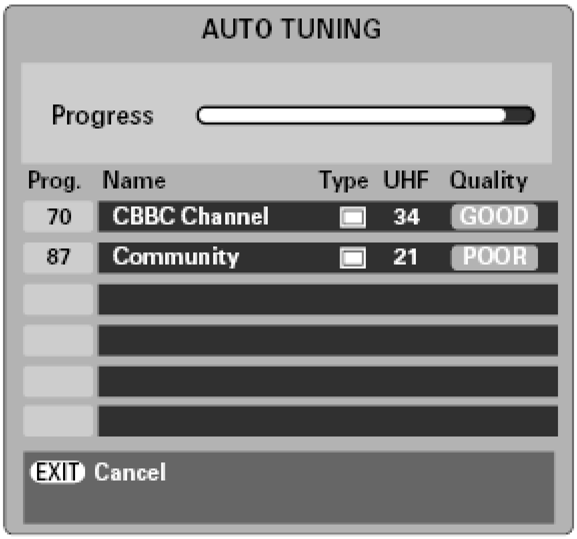
2 Press ▼ to highlight **Country** and ◀ or ▶ to select. The television will now tune the stations for your country.

3 Using ▼ highlight **Language**, then ◀ or ▶ to select.

4 Press **OK** to start tuning.

The **AUTO TUNING** screen will appear and the television will start to search for available stations. The progress bar will move along the line.

You must allow the television to complete the search.



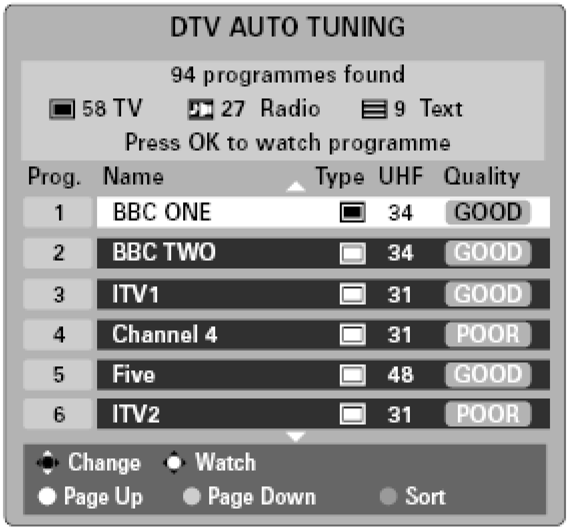
AUTO TUNING

Progress

Prog.	Name	Type	UHF	Quality
70	CBBC Channel	▭	34	GOOD
87	Community	▭	21	POOR

When the search is complete the television will automatically select programme one.

The **AUTO TUNING** screen will display the total number of services found.



DTV AUTO TUNING

94 programmes found

58 TV 27 Radio 9 Text

Press OK to watch programme

Prog.	Name	Type	UHF	Quality
1	BBC ONE	▭	34	GOOD
2	BBC TWO	▭	34	GOOD
3	ITV1	▭	31	GOOD
4	Channel 4	▭	31	POOR
5	Five	▭	48	GOOD
6	ITV2	▭	31	POOR

5 Use ▼ or ▲ to move through the list to select a programme then press **OK** to view.

NOTE: The time will be set automatically by transmission but can be advanced or decreased by up to 2 hours using **Local Time Settings**.

FUNCTION AND OPERATION

Digital Auto Tuning

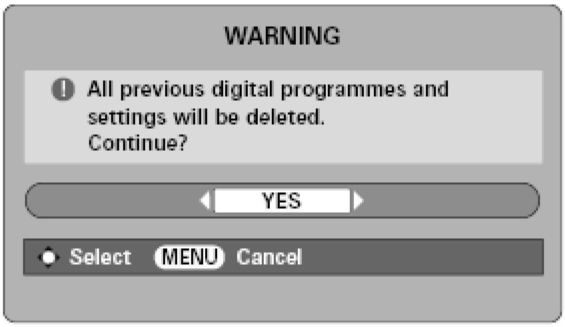
Note: As new services are broadcast it will be necessary to re-tune the television in order to view them.

Auto Tuning

Auto tuning *will completely re-tune the television and can be used to up date the channel list.* ***It is recommended that Auto tuning is run periodically to ensure that all new services are added.*** *All current programmes and settings, i.e. favourites and locked programmes, will be lost.*

1. Press **MENU**, the **SETUP MENU** will appear. Use ▼to highlight **Auto tuning**. Press **OK**.

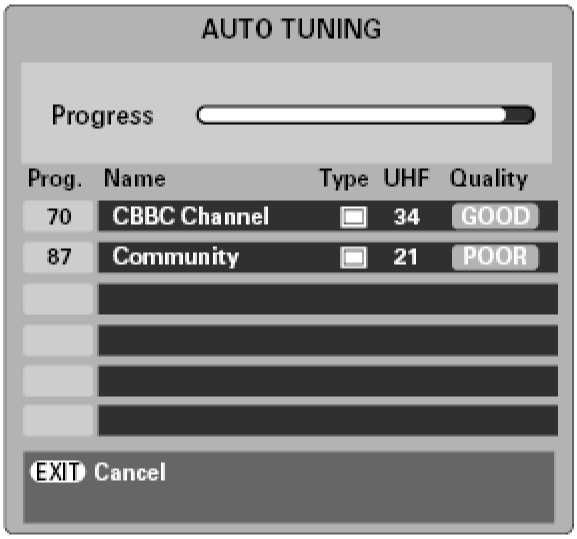
2. A screen will appear warning that previous digital programmes and settings will be deleted. Press **OK** to continue with the **Auto tuning**.



WARNING

All previous digital programmes and settings will be deleted. Continue?

The television will start to search for all available stations.

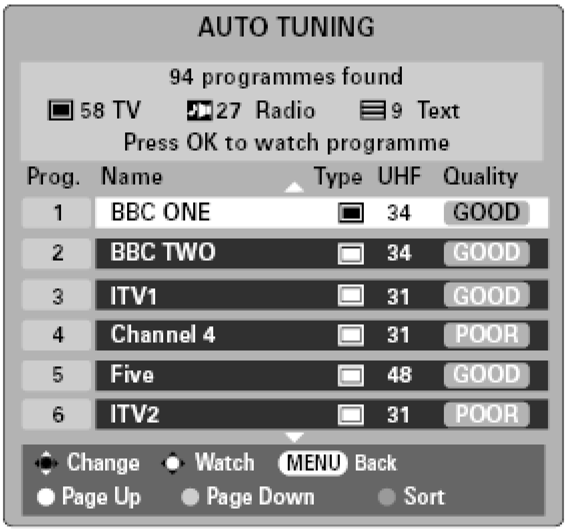

AUTO TUNING

Progress

Prog.	Name	Type	UHF	Quality
70	CBBC Channel	□	34	GOOD
87	Community	□	21	POOR

You must allow the television to complete the search.

When the search is complete the **Auto tuning** screen will display the total number of services found.


AUTO TUNING

94 programmes found

58 TV 27 Radio 9 Text

Press OK to watch programme

Prog.	Name	Type	UHF	Quality
1	BBC ONE	▣	34	GOOD
2	BBC TWO	□	34	GOOD
3	ITV1	□	31	GOOD
4	Channel 4	□	31	POOR
5	Five	□	48	GOOD
6	ITV2	□	31	POOR

3 Use ▼ or ▲ to move through the list to select a programme then press **OK** to view.

SPECIFICATION

DVB-T Broadcast systems/channels

UK	UHF	21-68
France	VHF	05-10 (VHF 01-05)
	UHF	21-69
Germany	VHF	05-12
	UHF	21-69
Swiss	VHF	05-12
	UHF	21-69
Italy	VHF	05-12 (D,E,F,G,H,H1,H2)
	UHF	21-69
Spain	UHF	21-69

Broadcast systems/channels

PAL-I	UHF	UK21-UK69
PAL-B/G	UHF	E21-E69
	VHF	E2-E12, S1-S41
SECAM-L	UHF	F21-F69
	VHF	F1-F10, B-Q
SECAM-D/K	UHF	R21-R69
	VHF	R1-R12

Video Input PAL, SECAM, NTSC 3.58/4.43

External connections

EXT1	Input/Output	21-pin SCART	RGB, A/V Selectable output
EXT2	Input/Output	21-pin SCART	A/V, S-video Selectable output
EXT3	Input	Phono jacks	Y, P_B/C_B, P_R/C_R
		Phono jacks	A/V
EXT3	Input (Side)	Phono jack	Video
		Phono jacks	Audio L + R
HDMI 1/2	Input	HDMI™ (1080p, LIP SYNC)	
PC	Input	Mini D-sub 15-pin	Analog RGB signal
PC/HDMI1 Audio		Phono jacks	Audio L + R
Digital Audio Output (S/PDIF)		Optical	
Output to Active Super Woofer		Phono jack	
Fixed Audio Output		Phono jacks	Audio L + R

Stereo		Nicam
		2 carrier system
Visible Screen Size	Model 32	80cm
(approx.)	37	94cm
	42	107cm
Display		16:9
Sound output (at 10% distortion)	Main	10W + 10W
Power consumption	Model 32	154W
as specified in	37	190W
EN60107-1 : 1997	42	241W
Standby (approx.)	Model 32	<1W
	37	<1W
	42	<1W
Dimensions	Model 32	60cm (H) 80cm (W) 29cm (D)
(approx.)	37	67cm (H) 92cm (W) 29cm (D
	42	73cm (H) 103cm (W) 34cm (D)
		(Height dimension includes foot stand)
Weight (approx.)	Model 32	18kg
	37	22kg
	42	27.5kg
Headphone socket		3.5mm stereo
Accessories		Remote control
		2 batteries
		(AAA, IEC R03 1.5V)